

FEDERAL ITEM IDENTIFICATION GUIDE

ELECTRONIC CIRCUITRY DEVICES

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Commander

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This Federal Item Identification Guide for Supply Cataloging is issued under the authority of Department of Defense Instruction 5025.7.

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BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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GENERAL INFORMATION

1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

2. Contents

This FIIG is comprised of the following:

- Index of Approved Item Names Covered by this FIIG
- Applicability Key Index
- Section I - Item Characteristics Data Requirements
- Section III - New text that should be here.
- Appendix A - Reply Tables
- Appendix B - Reference Drawing Groups (as applicable)
- Appendix C - Technical Data Tables (as applicable)

a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

(1) The letter "X" indicates the requirement must be answered for a full descriptive item.

(2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (*) is used in conjunction with the applicability key column in Section I.

(3) A blank in the column indicates the requirement is not applicable to the specific item name.

c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

(1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

(2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

(b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (*). Steps (1) through (6) are repeated for each application of the requirement.

(c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign (\$\$) for an AND condition, (5) the mode code, (6) the response or reply code

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(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

(3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

(4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

(5) Reply Code:

A code that represents an established authorized reply to a requirement.

d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

g. Appendix C - Technical Data Tables:

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This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

| <u>MRC</u> | <u>Mode</u> <u>Code</u> | <u>Requirement</u> | <u>Example</u> |
|------------|----------------------------|---|------------------------|
| CLQL | G | COLLOQUIAL NAME (common usage name by which an item is known) | CLQLGWOVEN WIRE CLOTH* |

4. Special Instructions and Indicator Definitions

a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

5. Indexes

a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

6. Maintenance

Requests for revisions and other changes will be directed to:

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|---|------------|----------------|
| Amplifier | | |
| 1. A device which by means of electron tube(s), transistor(s), or similar items in conjunction with associated circuits, controls a local source of power. Its output characteristics are uniformly related to the input signal, but of a greater amplitude with respect to current and/or voltage. | | |
| AMPLIFIER (1), ACCELEROMETER SIGNAL | 60048 | C |
| An amplifier which amplifies the input and/or output signal voltage(s) of an accelerometer. Excludes AMPLIFIER, ELECTRONIC CONTROL; and AMPLIFIER, SYNCHRO SIGNAL. | | |
| AMPLIFIER, AUDIO FREQUENCY | 00511 | A |
| An electronic device whose audio frequency input signals control power from a source independent of the input signals and delivers audio frequency output signals of greater amplitude with respect to current and/or voltage. The output signals characteristics are uniformly related to the input signals. It operates at frequencies of 20 kilohertz and below. It may or may not have signal switching capabilities. | | |
| AMPLIFIER, AUDIO-RADIO FREQUENCY | 31195 | A |
| An electronic device whose audio and radio frequency input signals control power from a source independent of the input signals and delivers audio and radio frequency output signals of greater amplitude with respect to current and/or voltage. The output signals characteristics are uniformly related to the input signals. It operates at frequencies above and below 20 kilohertz. | | |
| AMPLIFIER-COUPLER, RADIO FREQUENCY | 45059 | A |
| An item having the dual function of an amplifier and a coupler to provide automatic tuning to a variety of antennas by matching impedance levels. | | |
| AMPLIFIER, DATA ACQUISITION SYSTEM | 62135 | B |
| A specifically designed amplifier unit which amplifies low-level analog signals derived from a quantity of sources, such as strain gages, thermocouples, transducers, and the like, to useful levels for measurement, conditioning, monitoring, recording, indication, digital conversion, and the like. It may consist of single or multiple channels. | | |

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|--|------------|----------------|
| AMPLIFIER, DIRECT CURRENT | 19692 | P |
| An electronic device whose input signals control power from a source independent of the input signals and delivers output signals of greater amplitude with respect to current and/or voltage. The output signals characteristics are uniformly related to the input signals. It is used for small variations in direct current electrical impulses, and generally employs direct coupling between stages through resistors. | | |
| AMPLIFIER, ELECTRONIC CONTROL | 00096 | C |
| An electronic device which enables input signals to control a local source of power and deliver output signals of greater amplitude with respect to current and/or voltage. The output signals characteristics are uniformly related to the input signals, and are suitable for controlling or supplying power for the exciting of electric motors or similar devices. It includes devices commonly referred to as servo amplifiers, torque amplifiers and similar equipment only if these devices do not employ synchros nor incorporate servomechanisms. It does not include items which are properly classified as audio frequency, radio frequency, direct current or video amplifiers. For amplifiers that incorporate servomechanisms and employ synchros, see AMPLIFIER, SYNCHRO SIGNAL. | | |
| AMPLIFIER, INTERMEDIATE FREQUENCY | 00885 | Q |
| An electronic device whose input signals controls a local source of power and delivers an output signal of greater amplitude with respect to current and/or voltage. The output signals characteristics are uniformly related to the input signals. It is tuned to a single fixed frequency which is the resultant of heterodyne action between a local oscillator frequency and a signal frequency introduced from an external source. | | |
| AMPLIFIER (1), MAGNETIC DRUM AMPLIFIER | 60049 | B |
| An amplifier for electronic computer data being stored on or removed from a magnetic drum. | | |
| AMPLIFIER-MONITOR | 60059 | B |
| An item having the dual function of an amplifier and of presenting operational information. The amplifier and monitor are each used with associated components and may be used with each other. | | |
| AMPLIFIER, PARAMETRIC | 60050 | A |
| An item, the output characteristics of which are uniformly related to the input signal, but of greater amplitude with respect to current and/or voltage. It consists basically of an input signal inductance, an output signal inductance, and a semiconductor diode device. An external source of radio frequency power, commonly referred to as the "pump frequency" is injected across the diode at a frequency fundamentally or harmonically related to the input signal frequency. The diode, operating as a type of frequency-controlled capacitor, increases the amplitude of the input signal by an appreciable value, at an almost zero noise level. The characteristic of extremely low noise level at very high operating frequencies, makes the amplifier suitable for use with radar receivers, missile detection and tracking equipments, radio astronomy research, and the like. Excludes AMPLIFIER, RADIO FREQUENCY. | | |

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|--|------------|----------------|
| AMPLIFIER-PHOTOELECTRIC CELL | 60060 | C |
| A dual functioning device consisting of an amplifier (1) and an item which directly transforms light energy into corresponding values of electrical energy. | | |
| AMPLIFIER-PILOT REGULATOR | 10106 | A |
| A component having a dual function of an amplifier and a pilot regulator. The pilot regulator adjusts the gain-frequency characteristics of a received signal(s) with reference to one or more control (pilot) frequencies. | | |
| AMPLIFIER, RADIO FREQUENCY | 00446 | A |
| An electronic device whose radio frequency input signals control power from a source independent of the input signals, and delivers radio frequency output signals of greater amplitude with respect to current and/or voltage. The output signals characteristics are uniformly related to the input signals. It operates at frequencies above 20 kilohertz. | | |
| AMPLIFIER, STETHOSCOPE | 47359 | P |
| An item designed for attachment between the earpiece and the diaphragm of a stethoscope in order to enhance hearing quality. May be battery powered and include a visual on-off indicator. Excludes AMPLIFIER, DIRECT CURRENT. | | |
| AMPLIFIER, SYNCHRO SIGNAL | 60052 | C |
| A device designed to increase the capacity of a synchro transmission system and to isolate reflected oscillations from the input synchro signal. It includes a control transformer, an electronic or magnetic amplifier, a servomechanism and one or more synchro transmitters. May include synchro receiver(s). For amplifiers that do not include synchros and do not incorporate servomechanisms, see AMPLIFIER, ELECTRONIC CONTROL. | | |
| AMPLIFIER, TRIGGER PULSE | 00094 | B |
| An electronic device whose input signals control power from a source independent of the input signals and delivers output signals of greater amplitude with respect to current and/or voltage. The output signals characteristics are uniformly related to the input signals. It is controlled by triggering pulses of electrical energy. | | |
| AMPLIFIER, TRIGGER PULSE, TRAINING | 60053 | B |
| An item identical in configuration to an AMPLIFIER, TRIGGER PULSE. It is designed for use in training procedures associated with assembly and/or disassembly of a weapon. | | |
| AMPLIFIER, TRIGGER PULSE-VIDEO | 02105 | C |
| An electronic device whose input signals control power from a source independent of the input signals and delivers output signals of greater amplitude with respect to current and/or voltage. The output signals characteristics are uniformly related to the input signals. It incorporates two or more channels of which at least one is controlled by triggering pulses of electrical energy, and another is for electrical impulses which are video frequency signals which are converted into visual presentations (pictures) by means of a cathode ray tube or other items. | | |

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|---|------------|----------------|
| AMPLIFIER, VIDEO | 00095 | B |
| An electronic device whose video frequency input signals control power from a source independent of the input signals, and delivers output signals of greater amplitude with respect to current and/or voltage. The output signals characteristics are uniformly related to the input signals. It is generally used in equipment in which the electrical impulses are converted into visual presentation by means of cathode ray tubes or other items. | | |
| CALL-SIGNAL STATION | 03119 | A |
| A manually operated device which converts mechanical power into electrical energy for actuating an audible tone and may also actuate a visible signal at a similar remote station. It also receives electrical energy from another similar station and converts it into acoustical energy and may also actuate a visual signal. Includes a hand ringing generator, audible signaling device and cabinet. May include a selector switch, visual signal or volume control. See also GENERATOR, RINGING, HAND. | | |
| CODER, AUDIO FREQUENCY | 00370 | E |
| An electronic device which in accordance with a predetermined combination of circuit elements, supplies specific audio frequency signals to other electronic equipment. See also CODER, RADIO BEACON. | | |
| CODER, COMMAND SIGNALS | 61528 | C |
| An item which supplies electronic command signals, in accordance with a predetermined combination, to other electronic equipment(s). Excludes CODER, AUDIO FREQUENCY; CODER, TRANSPONDER SET; GENERATOR, PULSE; and GENERATOR, ELECTRONIC COMMAND SIGNALS. | | |
| CODER-DECODER, INTERROGATOR SET | 20335 | C |
| A component which supplies coded pulses for an interrogator set in accordance with a predetermined combination of signals and accepts and decodes the keyed pulses from a transponder set. | | |
| CODER, RADAR, GUIDED MISSILE | 60228 | C |
| A component which supplies keying pulses in accordance with a predetermined combination of signals. Designed to be used in a CODER SET,RADAR,GUIDED MISSILE and/or RADAR SET,GROUP to furnish signals for triggering a transmitting system of a radar, which transmits signals to a guided missile in flight. Excludes CODER, AUDIO FREQUENCY; CODER, TRANSPONDER SET; GENERATOR, PULSE; and GENERATOR, ELECTRONIC COMMAND SIGNALS. See also MODULATOR (as modified) and KEYER. | | |
| CODER, RADIO BEACON | 19682 | C |
| An electronic device which supplies keying pulses for radio frequency energy beacon equipment in accordance with a predetermined combination of signals. See also KEYER and MODULATOR (as modified). Excludes CODER, AUDIO FREQUENCY. | | |

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|--|------------|----------------|
| CODER, TRANSPONDER SET | 00141 | C |
| A component which supplies keying pulses for a transponder set in accordance with a predetermined combination of signals. Excludes CODER, AUDIO FREQUENCY. See also MODULATOR (as modified) and KEYSER. | | |
| CONVERTER, AMPLITUDE-SINGLE SIDE BAND | 60306 | F |
| An item that processes a signal in such a manner that it may be used to modulate a radio transmitter in either the amplitude or single side band mode. The item may also process signals derived from an amplitude or single side band modulated radio transmitter into a conventional form of aural intelligence. | | |
| CONVERTER, DATA-POWER SUPPLY, COUNTERMEASURES | 41165 | C |
| An electronic assembly that includes a data converter and a power supply. The data converter identifies enemy signals and conveys all threat data to the pilot. The power supply converts aircraft power to the required voltage of the countermeasures set. | | |
| CONVERTER, FREQUENCY, ELECTRONIC | 00329 | D |
| An electronic device having frequency mixing circuits and an integral oscillator which mixes the incoming frequency(ies) with the oscillator frequency, the resultant frequency(ies) being a combination of the two sources. Includes equipment that performs these functions at either radio or power line frequencies. Excludes items that change frequency by means of rotating equipment or rectifier and switching or keying circuitry. | | |
| CONVERTER, FREQUENCY SHIFT | 00114 | B |
| An electronic device which receives frequency shift signals from the intermediate frequency amplifier or audio output of a receiver, converts the signals into amplitude modulated tone or direct current signals and supplies it to terminal equipment, telephone lines, or a radio frequency link. | | |
| CONVERTER, SIGNAL DATA | 00441 | C |
| An electronic device which converts a data modulated signal of one form to a data modulated signal of another form. | | |
| CONVERTER-SIMULATOR, SIGNAL | 00966 | D |
| A component which performs the dual function of producing a simulated signal and converting this signal into different electrical impulses. | | |
| CONVERTER, SINGLE SIDEBAND | 05660 | F |
| An electronic device which when connected to the intermediate frequency amplifier of an amplitude modulation receiver, converts the receiver into a single sideband exalted carrier receiver. | | |

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| CONVERTER, WAVE FORM | 10199 | C |
| An electronic device which accepts an input signal of one waveform and produces an output signal of a radically different waveform. Excludes items which contain pulse generators requiring external triggering. | | |
| DECODER, AUDIO FREQUENCY | 00301 | C |
| An electronic device which converts coded electrical impulses into audible intelligence. | | |
| DECODER, AUDIO/VIDEO | 46637 | D |
| An electronic device which converts coded electrical impulses into audio and/or video intelligence generally used with satellite systems. | | |
| DECODER, COMMAND SIGNALS | 60377 | D |
| A component which converts coded impulses into electronic command signals, in accordance with a predetermined combination. | | |
| DECODER, COMPUTER | 42589 | D |
| A device which determines the meaning of a set of signals and initiates a computer operation based thereon. See also MATRIX, COMPUTER. Excludes MICROCIRCUIT (1) (as modified). | | |
| DECODER, PULSE | 60378 | D |
| An item that selectively extracts predetermined elements from an incoming pulse signal in a manner and sequence suitable for application to another component, such as a counter, indicator or recorder. | | |
| DECODER, VIDEO | 00398 | C |
| An electronic device which converts coded electrical impulses into signals which are used to present visual intelligence usually on the screen of a cathode ray tube. The means of display may be a component of the device. | | |
| DETECTOR, AUDIO FREQUENCY | 60391 | D |
| An item which demodulates audio frequency energy and may provide, in addition, a direct current control potential. | | |
| DETECTOR, CODED PULSE | 60392 | D |
| An item for the determination of the existence of coded pulses within a normal or uncoded radio frequency emission. | | |
| DETECTOR, LIGHT INTENSITY | 60393 | D |
| An item that senses variation of light intensity or color changes, and processes the derived signal for application to other components. | | |

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| DETECTOR, RADIO FREQUENCY | 05474 | D |
| An electronic device which demodulates radio frequency energy and may also provide a direct current control potential. | | |
| DETECTOR, RADIO FREQUENCY INTERFERENCE | 16439 | F |
| An item primarily designed to locate objectionable radio frequency disturbances. | | |
| DETECTOR, VIDEO SIGNAL | 05475 | D |
| An electronic device which demodulates video signals. It is used with equipment in which electrical impulses are converted into visual presentations on the screen of a cathode ray tube. | | |
| DIGITIZER, VOICE | 50429 | A |
| An item that analyzes voice signals, converts them to a set of digital parameters, and transmits them over a digital data link or telephone line. At the receive end, another voice digitizer produces synthesized voice, designed for human speech reproduction. Converts voice to a digital bit stream suitable for half/full-duplex transmission. Both speech and data can be transmitted simultaneously using multiplexers. May be used in conjunction with encryption equipment, data multiplexers, and modems to form a secure voice system that will enable it to be operated over standard data networks. | | |
| DISCRIMINATOR, ELECTRICAL FREQUENCY | 60403 | D |
| An item consisting of one or more ratio detectors specifically designed to pass signals received in a frequency-modulated telemeter system. | | |
| DIVIDER-COMBINER, POWER FREQUENCY | 49867 | D |
| An item which has the dual functions of a frequency divider and a frequency mixer stage. The item combines the inputs of two or more signals into a single signal or group of signals, and also has the characteristic of dividing signals into predetermined proportional signals. | | |
| ELECTRONIC MODULE, STANDARDIZED | 36647 | C |
| An electronic device capable of controlling voltage and/or current to produce gain, oscillation, or similar integral functions. It consists of a collection of electronic parts such as capacitors, resistors, coils, relays, transistors, semiconductor devices, and microcircuits in a single replaceable package. The configuration, physical dimensions, and electrical parameters of the item have been standardized in accordance with Government and/or Industry specifications and/or standards. Excludes items with nonstandardized configuration. It is not subject to disassembly as distinguished from such items as CIRCUIT CARD ASSEMBLY and ELECTRONIC COMPONENTS ASSEMBLY. Do not use if a more specific item name exists such as AMPLIFIER (as modified), CODER (as modified), MICROCIRCUIT (as modified), and OSCILLATOR (as modified). | | |

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|---|------------|----------------|
| ENCODER, COUNTERMEASURES | 51061 | D |
| A device which is used to convert analog to digital; encodes frequency information to digital outputs; accepts coarse information from a channelized receiving subsystem; resolves fine parameter measurements and encodes parameters into a digital word for transmission to a control processor. | | |
| EXCITER, RADIO FREQUENCY | 42422 | A |
| An electronic device having an integral oscillator which is used to create a carrier frequency and voltage fed to a RECEIVER, RADAR; RECEIVER, RADIO; TRANSMITTER, RADAR; TRANSMITTER, RADIO. The item may have provision(s) for amplifying, multiplying, controlling and mode selection. It may be a line replaceable unit (LRU). | | |
| FILTER-AMPLIFIER, RADIO FREQUENCY | 42785 | A |
| A single unit with the dual function of filtering radio frequencies, whether low band, high band, or bandpass and amplifying the selected output. | | |
| FREQUENCY DIVIDER | 00332 | D |
| An electronic device for delivering an output wave whose frequency is a proper fraction (sub-multiple) of the input frequency. It may also provide incidental signal amplification. | | |
| FREQUENCY DIVIDER MODULE | 49868 | D |
| An electronic device for delivering an output wave whose frequency is a proper fraction (sub-multiple) of the input frequency. It may also provide incidental signal amplification. The configuration, physical dimensions, and electrical parameters of the item have been standardized in accordance with government and/or industry specifications and/or standards. | | |
| FREQUENCY DIVIDER-MULTIPLIER # | 31194 | D |
| An electronic device for delivering output waves at different frequencies which are proper fractions (sub-multiples) and multiple of the input wave frequency. It may also provide incidental signal amplification. | | |
| FREQUENCY EXTENDER, TELEPHONE | 50430 | D |
| An electronic device that expands the frequency capacity of the voice line which is connected to the telephone line and telephone set. May include a microphone input, tape input, an Automatic Gain Control (AGC) for leveling high and low frequency, and an amplifier that enhances the higher frequency. | | |
| FREQUENCY MULTIPLIER | 00333 | D |
| An electronic device for delivering an output wave whose frequency is a multiple of the input frequency. It may also provide incidental signal amplification. | | |
| GATE, ELECTRONIC | 00410 | G |
| An electronic device which permits the passage of a radio frequency signal for a period of time determined by its circuit constants. See also ELECTRONIC SWITCH. | | |

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|---|--------------|----------------|
| Generator | | |
| 1. (Electrical) A machine that converts mechanical energy into electrical energy. | | |
| GENERATOR, DIGITAL CLOCK PULSE | 60543 | G |
| An item consisting of an oscillator, amplifiers, waveform clippers, frequency dividers and the like. It provides a series of pulses, or pulse reference frames of information relating to precise time data, that is applied to other components for purposes of synchronization and control. It may derive signals from internal circuitry, auxiliary external circuitry or from sources such as the National Bureau of Standards Radio Station WWV. The item may include an integral register for circuit monitoring and adjustment purposes only. For items that are not compared to a standard time signal source, but are used as time bases for system triggers, synchronizing sources and the like, see GENERATOR, REFERENCE SIGNAL; GENERATOR, ELECTRONIC COMMAND SIGNALS and GENERATOR, PULSE. | | |
| GENERATOR, ELECTRONIC COMMAND SIGNALS | 18684 | C |
| An electronic device which provides signals for the actuation of components of a guided missile during prelaunch or testing function. See also PROGRAMMER, ELECTRONIC COMMAND SIGNALS. | | |
| GENERATOR, ELECTRONIC MARKER | 19633 | H |
| An electronic device which generates electrical pulses of precise characteristics with respect to amplitude, shape, duration, and recurrence. Such pulses serve as reference indices on the screen of a cathode ray tube for determination of data, such as radar target range, azimuth, elevation and similar applications. See also GENERATOR, SIGNAL and GENERATOR, PULSE. | | |
| GENERATOR (1), FUNCTION, ELECTRONIC TEST | 47471 | G |
| A specifically designed generator, used for electronic testing, which stimulates devices and/or circuits under test by simulating various waveforms such as sine, square, triangular, pulse or arbitrary. May include modulation, sweep, synthesizing and/or calibration facilities. See also GENERATOR (as modified). | | |
| GENERATOR, INTERFERENCE | 19519 | J |
| An electronic device which develops radio frequency signals that are amplitude or frequency modulated by random frequencies of erratic amplitude. The output signals are similar in nature to radio interference caused by atmospheric static. | | |
| GENERATOR, NOISE | 41056 | G |
| An item that generates one or more types of noise signals, covering a specified portion of the frequency spectrum. Types of noise generated may include gaussian, impulse, thermal or the like. The noise may be essentially random or of known content and duration at a fixed rate. | | |

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|--|------------|----------------|
| GENERATOR, PULSE | 00411 | G |
| An electronic device which develops a discontinuous electrical potential with an abrupt rate of change of voltage which determines the harmonic content of the pulse train. The duration of a single pulse output is relatively short compared to the time of the recurrence cycle. See also GENERATOR, SINGLE PULSE and GENERATOR, ELECTRONIC MARKER. | | |
| GENERATOR, PULSE-SWEEP | 00412 | G |
| An electronic device which functions as both a pulse generator and a sweep generator. It develops a discontinuous electrical potential with an abrupt rate of change of voltage to determine the harmonic content of a pulse train. The pulse duration is relatively short compared to the time of recurrence cycle. Also, it applies voltage or current to the deflection elements in a cathode ray tube in a way to make the deflection of the electron beam a known function of time or other data base against which other periodically occurring electrical phenomena may be examined, compared, or measured. | | |
| GENERATOR, REFERENCE SIGNAL | 20372 | K |
| An electronic device which produces precise signals accurately related to a quantity such as time. The output signals are permanently connected into and are essential to the operation of other devices or equipments. Excludes items used in testing or alignment operations. See also GENERATOR, SIGNAL and TIME SIGNAL SET. | | |
| GENERATOR, SWEEP | 00413 | G |
| An electronic device which applies voltage or current to the deflection elements in a cathode ray tube in a way to make the deflection for the electron beam a known function of time or other data base, against which other periodically occurring electrical phenomena may be examined, compared, or measured. It is often referred to as a timing axis oscillator. | | |
| GENERATOR, SYMBOL, HEAD-UP DISPLAY | 51288 | B |
| An item that receives digital, analog and synchro signals from systems such as radar, central air data computer, gyro platform and/or weapon systems. These signals are processed, and updated symbols are generated to provide a visual display to the operator on the DISPLAY UNIT, HEAD-UP. | | |
| GENERATOR, TIME CODE | 62186 | G |
| A device specifically designed for use as a central timing device for the purpose of providing time-correlated signals for magnetic tape recorders, oscillographs, strip chart recorders, cameras, digital printers, remote digital displays or direct computer entry. The device may generate various time code formats, contain special features for time comparisons against broadcast time signals and provide visual display in BCD or decimal format. | | |
| HEAD, DETECTING, MAGNETIC ANOMALY | 46220 | D |
| An item which detects magnetic field changes and transforms them into usable electronic data. It includes the magnetic sensor and associated hardware and circuitry to orient and monitor the sensor. | | |

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|--|------------|----------------|
| KEYER, FREQUENCY SHIFT | 19349 | L |
| An electronic device which, in accordance with an intelligence signal, varies the frequency of a radio transmitter to which it is connected. It is generally used in the transmission of telegraph signals wherein the "MARK" signal is transmitted at a given frequency and the "SPACE" signal at a frequency displaced from the "MARK" frequency by a fixed number of hertz (usually 800). | | |
| KEYER-MESSAGE CONVERTER | 60668 | D |
| A single component on which a predetermined message may be converted directly into International Morse Code characters on a punched tape and which, in turn, actuates a keying mechanism that is connected to the input of another component such as a radio transmitter. The output is the International Morse Code equivalent of the predetermined message. | | |
| MICROMETER, ELECTRONIC, MUTUAL INDUCTANCE | 09785 | B |
| One or more components, specifically designed for measuring and indicating and/or recording very small linear distances in air or across nonmetallic materials by mutual inductance variation or variation in self-inductance, these properties being essentially a linear function of distance from a reference metallic surface to an inductance probe. | | |
| MICROPHONE STATION | 02034 | A |
| An item with or without a microphone, specifically designed to direct sonic variations or equivalent electrical impulses to selected groups of operating stations. | | |
| MIXER STAGE, FREQUENCY | 00334 | D |
| An electronic device which mixes two or more input frequencies which are usually adjustable, combines them linearly in desired proportions to produce a common output signal which is a resultant of the input frequencies. Excludes items having integral oscillators. See also CONVERTER, FREQUENCY, ELECTRONIC and MIXER, CRYSTAL, WAVEGUIDE. | | |
| MODULATOR, RADAR | 19063 | M |
| An electronic device which produces a succession of short energy pulses for triggering a transmitter tube in a radar set. Excludes GENERATOR, PULSE; CODER, RADIO BEACON; and OSCILLATOR (as modified). | | |
| MODULATOR, RADIO TRANSMITTER | 00768 | N |
| An electronic device which varies the amplitude phase or frequency of a carrier wave signal generated by a radio transmitter according to a pre-determined scheme. Excludes CODER, RADIO BEACON and KEYER, FREQUENCY SHIFT. | | |
| MODULATOR, RADIOSONDE | 00496 | B |
| An item consisting of elements which are sensitive to atmospheric changes and which is primarily designed to vary the amplitude, phase, and/or frequency of a signal generated by a radiosonde transmitter. | | |

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|--|------------|----------------|
| MONITOR, AUDIO FREQUENCY | 00769 | D |
| A receiver for reproducing audio frequency transmission without interfering with it. It is used for checking on the operation of a transmitter, having audio frequency output, with regard to quality, deviation from assigned bands, materials transmitted, etc. It may include remote indicators. | | |
| MONITOR, AUDIO-RADIO FREQUENCY | 31193 | D |
| A receiver for reproducing audio and radio frequency transmission without interfering with it. It is used for checking on the operation of a transmitter, having audio and radio frequency output, with regard to quality, deviation from assigned bands, materials transmitted, etc. It may include remote indicators. | | |
| MONITOR, ERROR VOLTAGE | 19374 | D |
| A single component designed to display operational information from another component or set having an error voltage output. | | |
| MONITOR, RADIO FREQUENCY | 00771 | D |
| A receiver for reproducing radio frequency transmission without interfering with it. It is used for checking on the operation of a transmitter, having radio frequency output, with regard to quality, deviation from assigned bands, materials transmitted, etc. It may include remote indicators. | | |
| MONITOR, RECEIVER-TRANSMITTER, RADIO | 48690 | A |
| An electronic device usually consisting of an electronic control unit, display unit, cables, panels, and other items needed to monitor the reception and transmission of radio frequency signals. | | |
| MONITOR, TRANSPONDER SET | 19376 | D |
| An item that displays operational information from a TRANSPONDER SET to which it is connected. | | |
| MONITOR, VOLTAGE DEVIATION | 21746 | D |
| An item that accepts fixed voltages from test points in another component or set, and displays them in such a manner that deviation from a predetermined voltage value is readily apparent. The display is in terms of "good" and "bad" and is not in terms of voltage values. For items that display the same or similar information that is derived from a radio frequency signal input, see MONITOR, ERROR VOLTAGE. For items that indicate voltage values in either scaler or digital form. See VOLTMETER. See also INDICATOR (as modified). | | |

Oscillator

1. (Electronic) An electronic device which generates alternating current power at a frequency(ies) determined by the values of certain constants in its circuits. The frequency(ies) is often an adjustable specified range. The operating frequency(ies) falls within the audio frequency spectrum (20 kilohertz and below) and/or the radio frequency spectrum (20 kilohertz and above). The frequency(ies) may be controlled by a CRYSTAL UNIT, QUARTZ, an ELECTRON TUBE, a microcircuit, a tuned inductive-capacitive circuit, or any similar device serving the same function.

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|---|------------|----------------|
| OSCILLATOR (1), CRYSTAL CONTROLLED | 34690 | A |
| An oscillator whose operating frequency(ies) is controlled by a CRYSTAL UNIT, QUARTZ. For an oscillator controlled by a device other than a crystal, see OSCILLATOR (1), NONCRYSTAL CONTROLLED. See also GENERATOR, SIGNAL; and CALIBRATOR, FREQUENCY. Excludes FREQUENCY SUPPLY, TELEPHONE CARRIER; RESONATOR, TUNING FORK; and OSCILLATOR, PULSE DELAY. | | |
| OSCILLATOR (1), NONCRYSTAL CONTROLLED | 34691 | A |
| An oscillator whose operating frequency(ies) is controlled by a electronic device other than a CRYSTAL UNIT, QUARTZ. For an oscillator controlled by a crystal, see OSCILLATOR (1), CRYSTAL CONTROLLED. See also GENERATOR, SIGNAL; AND CALIBRATOR, FREQUENCY. Excludes FREQUENCY SUPPLY, TELEPHONE CARRIER; RESONATOR, TUNING FORK; and OSCILLATOR, PULSE DELAY. | | |
| OSCILLATOR, PULSE DELAY | 00414 | G |
| An electronic device which generates alternating current power at a frequency(ies) determined by the values of certain constants in its circuits. It is characterized by a network in the input and/or output circuits which causes a delay in transmission of a trigger pulse of predetermined width for a definite time interval. See also DELAY LINE. | | |
| PROCESSOR, COMMUNICATIONS | 48410 | C |
| Serves as the gateway between the communications subsystem and the mission control and real time local area network. One interface will be used for transmission and reception of messages traffic between the mission control area network and the message distribution processor. The other interface will be used to relay the digitized voice between the real time local area network and the commanders tactical terminal voice circuits, the voice order wire and back up voice wire to the aircraft pilots or the single channel ground and airborne radio system radio. The local area network interface is the system fiber distributed data interface standards. | | |
| PROCESSOR, COUNTERMEASURES SIGNAL | 39753 | C |
| An electronic device which, given an enemy radar signal, identifies the type of threat that the radar signal represents and conveys this data to the operator. | | |
| PROCESSOR, FLIGHT FORMATION | 67955 | C |
| A processor that replaces the station keeping equipment radar processor and the traffic alert and collision avoidance system processor. The unit processes data from the new flight formation system and TCAS and forwards the information to the intra-formation indicator(s). The unit also includes an interface for the identification friend/foe system to prevent interference. Excludes: PROCESSOR, RADAR DATA; PROCESSOR, RADAR TARGET DATA; and PROCESSOR, FLIGHT INFORMATION. | | |

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|--|------------|----------------|
| PROCESSOR, LAUNCH CONTROL | 67811 | A |
| An item that receives target data information from a fire control missile system computer that calculates target position, interception coordinates, interprets missile engagement zones, and generates missile and launching sequencing system commands at approaching threats. | | |
| PROCESSOR, RADAR DATA | 39661 | C |
| An item that receives, stores and processes radar data such as frequency, range, tracking and synchronizations. It receives input from the radar control panel and automatically processes the data. It provides computations and signal processing for the radar systems and subsystems. Excludes PROCESSOR, RADAR TARGET DATA. | | |
| PROCESSOR, RADAR TARGET DATA | 62207 | B |
| An item specifically designed to receive and process radar target data supplied by target tracking radar(s). Automatic processing of data received provides information required for rapid engagement of hostile aerial targets. Excludes PROCESSOR-VERIFIER, COMPUTER. | | |
| PROCESSOR, SIGNAL, SONAR DATA | 48018 | C |
| An item specifically designed to receive and process sonar target data supplied by a variety of shipboard and airborne sonar detection devices. Automatic processing of data received provides information for detecting, classifying and localizing surface and subsurface targets. | | |
| PULSE SHAPER | 51469 | B |
| An electronic device specifically designed to change one or more characteristics of a pulse. See also RESTORER, PULSE FORM. | | |
| QUANTIZER, VIDEO SIGNAL DATA | 60886 | C |
| RESTORER, PULSE FORM | 06638 | B |
| An electronic device designed to return to their original shape, electrical pulses which have been distorted by noise and circuit nonlinearities of wire or space transmission. | | |
| SEXTANT, ELECTRONIC | 16331 | D |
| An item utilizing electronic principles for orientating a point with respect to a selected member of the solar system. It does not use optical or ocular sighting methods. It includes ANTENNA, RECEIVER and one or more indicators. See also NAVIGATIONAL SET, ASTRONOMIC. | | |
| SIGNAL ASSEMBLY, SWITCHBOARD | 00142 | A |
| Two or more switchboard signals on a common mounting or mounted on each other. | | |
| SIGNAL, SWITCHBOARD | 00464 | A |
| An electrical item, part of a switchboard, which will give a visual indication of an input signal. May include an associated jack and switch assembly. | | |

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|---|------------|----------------|
| SWITCH-AMPLIFIER, RADIO FREQUENCY | 48691 | A |
| An item having the dual function of a radio frequency amplifier and a radio frequency switch. The switching function may be manual, electromechanical or by means of an arrangement of semiconductors and passive circuit devices. | | |
| SWITCH, ELECTRONIC | 42816 | D |
| An electronic device which provides for the transfer of the electrical signal input from one component to another, or between two or more components. It may also provide a continuous sequency of switching or sampling of a number of circuits. See also GATE, ELECTRONIC. | | |
| SYNTHESIZER, ELECTRICAL FREQUENCY | 61159 | D |
| An item with the combined functions of a FREQUENCY DIVIDER and a FREQUENCY MULTIPLIER. It provides a multiplicity of discrete output signals harmonically related to a standard source frequency, that may be utilized in radio receivers, transmitters, musical instruments, test equipment, density of rapidly selectable individual communication frequency bandwidth. See also GENERATOR, REFERENCE SIGNAL. Excludes FREQUENCY DIVIDER; FREQUENCY MULTIPLIER; and KEYBOARD INSTRUMENT, ELECTRONIC. | | |
| TRANSLATOR, SIGNAL DATA | 61285 | C |
| An item that processes a restricted bandwidth data modulated signal received on a wide band carrier frequency, to a standardized single radio frequency, and conversely processes a locally generated data modulated signal within a restricted bandwidth to a standardized single radio frequency, for transmission within the restricted bandwidth on any incremental frequency on the wide band carrier frequency. See also CONVERTER, SIGNAL DATA. | | |
| TUNER, RADIO FREQUENCY | 00745 | D |
| An electronic device consisting of the necessary elements to establish the upper and lower limits and to effect the variation (continuous or in steps) of the frequency of a tuned circuit by means of an integral variable capacitor, inductor, cavity, or line. | | |
| TUNING UNIT, RADIO FREQUENCY | 00474 | D |
| An electronic device consisting of the necessary elements to establish the frequency or frequency range of two or more tuned circuits to predetermined value or range. It may have facilities for calibration adjustments. There are no integral facilities for continuous variation of the frequency over the entire range of the item. It is generally used with an external variable capacitor or inductor which will effect the continuous variation of the frequency. This item is used to facilitate rapid band or channel changes in radio receivers, transmitter, amplifiers, or similar devices. It does not include electron tubes. See also COIL ASSEMBLY, RADIO FREQUENCY and TUNER, RADIO FREQUENCY. | | |

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| <u>Approved Item Name</u> | <u>INC</u> | <u>App Key</u> |
|---------------------------|------------|----------------|
| WAVE FORM SYNTHESIZER | 00183 | D |

An item generating power, variable in frequency and phase, and adjustable in harmonic content and harmonic amplitude. It may include monitoring facilities. See also ANALYZER, ELECTRICAL PULSE; ANALYZER, VIDEO INTEGRATING; INDICATOR, PANORAMIC; and OSCILLOSCOPE.

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|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| NAME | X | X | X | X | X | X | X | X | X | X |
| BHSX | X | X | X | X | X | X | X | X | X | X |
| BHTB | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BHSY | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BHSZ | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BHTD | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BHTF | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BHTG | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AJVF | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AFBH | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BHTH | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BHTJ | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BHTK | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BHTL | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BHTN | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BHTW | | AR | AR | | | | AR | AR | AR | AR |
| BHTP | | AR | AR | | | | AR | AR | AR | AR |
| BHTQ | | AR | AR | | | | AR | AR | AR | AR |
| BHTR | | AR | AR | | | | AR | AR | AR | AR |
| BHTS | | AR | AR | | | | AR | AR | AR | AR |
| BHTT | | AR | AR | | | | AR | AR | AR | AR |
| BHTX | | AR | AR | | | | AR | AR | AR | AR |
| BHTY | | AR | AR | | | | AR | AR | AR | AR |
| BHTZ | | | X | | X | | X | X | | X |
| BHWP | | | | | | | | AR | | |
| BJBC | | | | | | | | AR | | |
| BJBF | | | | | | | | AR | | |
| ANKX | | | | | | X | | | | |
| BJBG | AR | | | | | | | | | |
| BJBS | | | | | | | AR | | | AR |
| BJBH | | | | | | | AR | | | AR |
| BJBJ | | | | | | | X | | | |
| BJBK | | | | | | | | | X | |
| ALBM | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AQZF | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BJBL | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BJBM | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AFSU | X | X | X | X | X | X | X | X | X | X |
| AFHH | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AKAE | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AFGA | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AECR | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AFDN | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AFDP | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BJBN | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BKFB | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BKFC | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BJBQ | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |

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|------|----|----|----|----|----|----|----|----|----|----|
| FAAZ | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BJBP | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BJBW | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BJBT | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AKNA | X | X | X | X | X | X | X | X | X | X |
| ADZC | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AKAP | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AMQY | X | X | X | X | X | X | X | X | X | X |
| AGTA | X | X | X | X | X | X | X | X | X | X |
| ABHP | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ABKW | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ABMK | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ADAV | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AJKH | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| CBBL | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| RADC | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| FEAT | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| TEST | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| SPCL | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AARG | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ZZZK | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ZZZT | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ZZZW | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ZZZX | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ZZZY | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| CRTL | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| PRPY | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ELRN | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| NHCF | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ELCD | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BJBR | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ABBH | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| HUES | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ABSW | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| MARK | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BBRJ | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AFJN | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| BBRG | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| RADD | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AFJQ | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AGAV | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| AFJK | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| PRMT | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| PMWT | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| PMLC | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| SUPP | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| FCLS | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| FTLD | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| TMDN | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| RTSE | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| RDAL | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| NTRD | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ZZZP | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| ZZZV | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| HZRD | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |
| CXCY | AR | AR | AR | AR | AR | AR | AR | AR | AR | AR |

FIIG A322
GENERAL INFORMATION
APPLICABILITY KEY INDEX

| | <u>L</u> | <u>M</u> | <u>N</u> | <u>P</u> | <u>Q</u> |
|------|----------|----------|----------|----------|----------|
| NAME | X | X | X | X | X |
| BHSX | X | X | X | X | X |
| BHTB | AR | AR | AR | | AR |
| BHSY | AR | AR | AR | | AR |
| BHSZ | AR | AR | AR | | AR |
| BHTD | AR | AR | AR | | AR |
| BHTF | AR | AR | AR | | AR |
| BHTG | AR | AR | AR | | AR |
| AJVF | AR | AR | AR | | AR |
| AFBH | AR | AR | AR | AR | AR |
| CMGX | | | | | X |
| BHTH | AR | AR | AR | AR | AR |
| BHTJ | AR | AR | AR | AR | AR |
| BHTK | AR | AR | AR | AR | AR |
| BHTL | AR | AR | AR | AR | AR |
| BHTN | AR | AR | AR | AR | AR |
| BHTW | AR | AR | | AR | |
| BHTP | AR | AR | | AR | |
| BHTQ | AR | AR | | AR | |
| BHTR | AR | AR | | AR | |
| BHTS | AR | AR | | AR | |
| BHTT | AR | AR | | AR | |
| BHTX | AR | AR | | AR | |
| BHTY | AR | AR | | AR | |
| ANKX | X | | X | | |
| BJBG | | | AR | | AR |
| BJBJ | | X | | | |
| ALBM | AR | AR | AR | AR | AR |
| AQZF | AR | AR | AR | AR | AR |
| BJBL | AR | AR | AR | AR | AR |
| BJBM | AR | AR | AR | AR | AR |
| AFSU | X | X | X | X | X |
| AFHH | AR | AR | AR | AR | AR |
| AKAE | AR | AR | AR | AR | AR |
| AFGA | AR | AR | AR | AR | AR |
| AECR | AR | AR | AR | AR | AR |
| AFDN | AR | AR | AR | AR | AR |
| AFDP | AR | AR | AR | AR | AR |
| BJBN | AR | AR | AR | AR | AR |
| BKFB | AR | AR | AR | AR | AR |
| BKFC | AR | AR | AR | AR | AR |
| BJBQ | AR | AR | AR | AR | AR |
| FAAZ | AR | AR | AR | AR | AR |
| BJBP | AR | AR | AR | AR | AR |
| BJBW | AR | AR | AR | AR | AR |
| BJBT | AR | AR | AR | AR | AR |
| AKNA | X | X | X | X | X |
| ADZC | AR | AR | AR | AR | AR |
| AKAP | AR | AR | AR | AR | AR |
| AMQY | X | X | X | X | X |
| AGTA | X | X | X | X | X |
| ABHP | AR | AR | AR | AR | AR |
| ABKW | AR | AR | AR | AR | AR |

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GENERAL INFORMATION
APPLICABILITY KEY INDEX

| | | | | | |
|------|----|----|----|----|----|
| ABMK | AR | AR | AR | AR | AR |
| ADAV | AR | AR | AR | AR | AR |
| AJKH | AR | AR | AR | AR | AR |
| CBBL | AR | AR | AR | AR | AR |
| RADC | AR | AR | AR | AR | AR |
| FEAT | AR | AR | AR | AR | AR |
| TEST | AR | AR | AR | AR | AR |
| SPCL | AR | AR | AR | AR | AR |
| AARG | AR | AR | AR | AR | AR |
| ZZZK | AR | AR | AR | AR | AR |
| ZZZT | AR | AR | AR | AR | AR |
| ZZZW | AR | AR | AR | AR | AR |
| ZZZX | AR | AR | AR | AR | AR |
| ZZZY | AR | AR | AR | AR | AR |
| CRTL | AR | AR | AR | AR | AR |
| PRPY | AR | AR | AR | AR | AR |
| ELRN | AR | AR | AR | AR | AR |
| NHCF | AR | AR | AR | AR | AR |
| ELCD | AR | AR | AR | AR | AR |
| BJBR | AR | AR | AR | AR | AR |
| ABBH | AR | AR | AR | AR | AR |
| HUES | AR | AR | AR | AR | AR |
| ABSW | AR | AR | AR | AR | AR |
| MARK | AR | AR | AR | AR | AR |
| BBRJ | AR | AR | AR | AR | AR |
| AFJN | AR | AR | AR | AR | AR |
| BBRG | AR | AR | AR | AR | AR |
| RADD | AR | AR | AR | AR | AR |
| AFJQ | AR | AR | AR | AR | AR |
| AGAV | AR | AR | AR | AR | AR |
| AFJK | AR | AR | AR | AR | AR |
| PRMT | AR | AR | AR | AR | AR |
| PMWT | AR | AR | AR | AR | AR |
| PMLC | AR | AR | AR | AR | AR |
| SUPP | AR | AR | AR | AR | AR |
| FCLS | AR | AR | AR | AR | AR |
| FTLD | AR | AR | AR | AR | AR |
| TMDN | AR | AR | AR | AR | AR |
| RTSE | AR | AR | AR | AR | AR |
| RDAL | AR | AR | AR | AR | AR |
| NTRD | AR | AR | AR | AR | AR |
| ZZZP | AR | AR | AR | AR | AR |
| ZZZV | AR | AR | AR | AR | AR |
| HZRD | AR | AR | AR | AR | AR |
| CXCY | AR | AR | AR | AR | AR |

SECTION I

| APP Key | MRC | Mode Code | Requirements |
|------------|-----|-----------|--------------|
|------------|-----|-----------|--------------|

ALL

| | | |
|------|---|-----------|
| NAME | D | ITEM NAME |
|------|---|-----------|

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code. (e.g., NAMED00511*)

ALL

| | | |
|------|---|---------------------------|
| BHSX | D | CIRCUIT CONSTRUCTION TYPE |
|------|---|---------------------------|

Definition: INDICATES THE TYPE OF CIRCUIT CONSTRUCTION PROVIDED IN THE ITEM.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., BHSXDAA*; BHSXDAW\$\$DAF*)

| | |
|-------------------|---------------------|
| <u>REPLY CODE</u> | <u>REPLY (AM43)</u> |
| AA | ELECTROMECHANICAL |
| AW | ELECTRON TUBE |
| AF | SOLID STATE |

A*, B*, C*, D*, E*, F*, G*, H*, J*, K*, L*, M*, N*, Q*

| | | |
|------|---|-----------------------|
| BHTB | J | FREQUENCY PER CHANNEL |
|------|---|-----------------------|

Definition: THE PORTION OF THE FREQUENCY SPECTRUM AT WHICH AN ITEM IS DESIGNED TO RECEIVE OR TRANSMIT SIGNAL POWER.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below and [Appendix A](#), Table 1, followed by the numeric value. (e.g., BHTBJKAAAM940.0*; BHTBJKBAAM935.0\$\$JKCAAM945.0*)

If there is a specified range of frequencies or more than one channel, use And Coding \$\$, entering replies in Appendix A, Table 1 sequence. (e.g., BHTB1AJKBAAG900.0\$\$JKCAAG940.0*)

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APP
Key MRC Mode Code Requirements

Table 1

| <u>REPLY CODE</u> | <u>REPLY (AC32)</u> |
|-------------------|---------------------|
| G | GIGAHERTZ |
| E | HERTZ |
| K | KILOHERTZ |
| M | MEGAHERTZ |

Table 2

| <u>REPLY CODE</u> | <u>REPLY (AC20)</u> |
|-------------------|---------------------|
| A | NOMINAL |
| B | MINIMUM |
| C | MAXIMUM |

A*, B*, C*, D*, E*, F*, G*, H*, J*, K*, L*, M*, N*, Q*

BHSY A SWITCHING RATE PER SECOND

Definition: THE NUMBER OF SWITCHING CYCLES THAT OCCUR PER SECOND.

Reply Instructions: Enter the quantity. (e.g., BHSYA1500*)

If more than one channel is included in the item, use And Coding \$\$, entering a reply for each in the same sequence established for MRC BHTB. (e.g., BHSYA1925\$\$A2560*)

A*, B*, C*, D*, E*, F*, G*, H*, J*, K*, L*, M*, N*, Q*

BHSZ J FREQUENCY SHIFT

Definition: THE SHIFT OF THE FREQUENCY OF THE ITEM.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric value. (e.g., BHSZJK20.0*; BHSZJK1.0\$\$JK2.0*; BHSZJE200.0\$\$JK1.0*)

| <u>REPLY CODE</u> | <u>REPLY (AC32)</u> |
|-------------------|---------------------|
| G | GIGAHERTZ |
| E | HERTZ |
| K | KILOHERTZ |
| M | MEGAHERTZ |

A*, B*, C*, D*, E*, F*, G*, H*, J*, K*, L*, M*, N*, Q*

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Key MRC Mode Code Requirements

BHTD D FREQUENCY ADJUSTMENT TYPE

Definition: INDICATES THE TYPE OF FREQUENCY ADJUSTMENT INCLUDED IN THE ITEM.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., BHTDDE*)

REPLY CODE

E
J

REPLY (AD63)

CONTINUOUS
STEPPED

NOTE FOR MRC BHTF: REPLY TO THIS MRC ONLY IF REPLY CODE J IS ENTERED FOR MRC BHTD.

A*, B*, C*, D*, E*, F*, G*, H*, J*, K*, L*, M*, N*, Q* (See Note Above)

BHTF J INDIVIDUAL STEP FREQUENCY

Definition: THE FREQUENCY OF EACH STEP.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric value. (e.g., BHTFJK20.0*; BHTFJK2.7\$\$JK2.9*)

REPLY CODE

G
E
K
M

REPLY (AC32)

GIGAHERTZ
HERTZ
KILOHERTZ
MEGAHERTZ

A*, B*, C*, D*, E*, F*, G*, H*, J*, K*, L*, M*, N*, Q*

BHTG B VARIATION FREQUENCY RATING IN DECIBELS

Definition: THE AMOUNT OF ALLOWABLE VARIATION RELATIVE TO A SPECIFIED FREQUENCY LEVEL, EXPRESSED IN DECIBELS.

Reply Instructions: Enter the numeric value. (e.g., BHTGB3.5*; BHTGBM1.5\$\$B1.5*)

A*, B*, C*, D*, E*, F*, G*, H*, J*, K*, L*, M*, N*, Q*

AJVF J PHASE SHIFT ANGLE IN DEG

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Key MRC Mode Code Requirements

Definition: THE DIFFERENCE BETWEEN THE PHASE TIME OF TWO OR MORE VOLTAGES OR CURRENTS OF THE SAME FREQUENCY, AT THE SAME INSTANT OF TIME, EXPRESSED IN DEGREES.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJVFJABA4.5*; AJVFJABB4.0\$\$JABC5.0*)

If the source document does not specify the element comparison used, enter REPLY CODE AB from Table 1.

Table 1

REPLY CODE

AB

AC

REPLY (AG04)

INPUT TO OUTPUT

OUTPUT TO INPUT

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

NOTE FOR MRC AFBH: REPLY TO THIS MRC ONLY IF MORE THAN ONE FREQUENCY HAS BEEN ENTERED FOR MRC BHTB.

A*, B*, C*, D*, E*, F*, G*, H*, J*, K*, L*, M*, N*, P*, Q* (See Note Above)

AFBH A INDIVIDUAL SECTION QUANTITY

Definition: THE NUMBER OF INDIVIDUAL SECTIONS INCLUDED IN THE ITEM.

Reply Instructions: Enter the quantity. (e.g., AFBHA2*)

Q

CMGX J INTERMEDIATE FREQUENCY BANDPASS

Definition: THE NUMBER OF HERTZ (CYCLES PER SECOND) EXPRESSING THE DIFFERENCE BETWEEN THE LIMITING FREQUENCIES AT WHICH THE DESIRED FRACTIONS (USUALLY HALF POWER) OF THE MAXIMUM OUTPUT IS OBTAINED.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric value. (e.g., CMGXJK40.0*)

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APP
Key MRC Mode Code Requirements

If more than one channel is included in the item, use And Coding \$\$, entering a reply for each in the same sequence established for MRC BHTB. (e.g., CMGXJM5.0\$\$JM10.0*)

REPLY CODE

E
K
M

REPLY (AC32)

HERTZ
KILOHERTZ
MEGAHERTZ

ALL *

BHTH B ATTENUATION IN DECIBELS

Definition: THE DECREASE IN STRENGTH OF AN ELECTRICAL IMPULSE, EXPRESSED IN DECIBELS.

Reply Instructions: Enter the numeric value. (e.g., BHTHB2.0*)

If an attenuation range is reflected in the source data, use And Coding \$\$, entering the lowest value first. (e.g., BHTHB3.0\$\$B10.0*)

ALL *

BHTJ J AVERAGE PER CHANNEL POWER RATING

Definition: THE RATED AVERAGE POWER FOR EACH CHANNEL.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BHTJJWF100.0*)

If the item is rated for both input and output, use And Coding \$\$, entering both ratings in Table 2 reply sequence. (e.g., BHTJJWB100.0\$\$JWF150.0*)

Table 1

REPLY CODE

L
R
M
W

REPLY (AC33)

KILOWATTS
MEGAWATTS
MILLIWATTS
WATTS

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APP
Key MRC Mode Code Requirements

Table 2

REPLY CODE

B

F

REPLY (AC00)

INPUT

OUTPUT

ALL *

BHTK J SIGNAL VOLTAGE RATING PER CHANNEL

Definition: THE RATED SIGNAL VOLTAGE FOR EACH CHANNEL.

Reply Instructions: Enter the applicable Reply Codes from Tables 1, 2, and 3 below, followed by the numeric value. (e.g., BHTKJVA25.000*; BHTKJVBF20.000\$\$JVC30.000*)

If the item is rated for input and output, use And Coding \$\$, entering replies in Table 3 sequence. (e.g., BHTKJVBB10.500\$\$JVCB25.000\$\$JVBF60.500\$JVC30.000\$)

Table 1

REPLY CODE

K

M

U

L

V

REPLY (AB63)

KILOVOLTS

MEGAVOLTS

MICROVOLTS

MILLIVOLTS

VOLTS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

Table 3

REPLY CODE

B

F

REPLY (AC00)

INPUT

OUTPUT

ALL *

BHTL J OVERALL GAIN

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SECTION I

APP
Key MRC Mode Code Requirements

Definition: THE INCREASE IN ENERGY FROM THE INPUT TO THE OUTPUT.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric value. (e.g., BHTLJAD3.0*)

If rated for more than one value, use And Coding \$\$, entering replies in ascending sequence. (e.g., BHTLJAD3.0\$\$JAD5.0*)

| <u>REPLY CODE</u> | <u>REPLY (AB49)</u> |
|-------------------|---------------------|
| AA | AMPERES |
| AD | DECIBELS |
| BA | MILLIAMPERES |
| BB | MILLIVOLTS |
| AS | VOLTS |

ALL *

BHTN J IMPEDANCE RATING PER CHANNEL

Definition: THE TOTAL OPPOSITION (RESISTIVE AND REACTIVE) TO THE FLOW OF ALTERNATING CURRENT PER CHANNEL.

Reply Instructions: Enter the applicable Reply Codes from the table below and [Appendix A](#), Table 1, followed by the numeric value. (e.g., BHTNJQRAAB25.750*)

If the item is rated for both input and output, use And Coding \$\$, entering both ratings in Appendix A, Table 1 reply sequence. (e.g., BHTNJKRAAG1.125\$\$JKRAAM2.000*)

| <u>REPLY CODE</u> | <u>REPLY (AE75)</u> |
|-------------------|---------------------|
| GF | GIGOHMS |
| KR | KILOHMS |
| MR | MEGOHMS |
| MC | MICROHMS |
| ML | MILOHMS |
| QR | OHMS |

B*, C*, G*, H*, J*, K*, L*, M*, P*

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Key MRC Mode Code Requirements

BHTW J PULSE PEAK AMPLITUDE PER CHANNEL

Definition: THE MAXIMUM ABSOLUTE PEAK VALUE OF THE PULSE PER CHANNEL.

Reply Instructions: Enter the applicable Reply Codes from the table below and [Appendix A](#), Table 1, followed by the numeric value. (e.g., BHTWJBWAAB25.500*)

If the item has more than one channel, use And Coding \$\$, giving a reply for each, entering in Appendix A, Table 1 reply sequence. (e.g., BHTW1AJBWAAH250.750\$\$JBWAAJ375.000*)

REPLY CODE

BW

BB

AS

REPLY (AB49)

MICROVOLTS

MILLIVOLTS

VOLTS

B*, C*, G*, H*, J*, K*, L*, M*, P*

BHTP J PULSE DURATION PER CHANNEL

Definition: THE TIME REQUIRED FOR ONE COMPLETE PULSE PER CHANNEL.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below and from [Appendix A](#), Table 1, followed by the numeric value. (e.g., BHTPJALAAAB25.100*; BHTPJALBAAB25.090\$\$JALCAAB25.110*)

For items with a specified range or more than one channel, use And Coding \$\$, entering replies in Appendix A, Table 1 reply sequence. (e.g., BHTPJALAAAG25.125\$\$JALBAAM1.500\$\$JALCAAM2.500*)

Table 1

REPLY CODE

AL

BK

EF

REPLY (AB49)

MICROSECONDS

MILLISECONDS

NANOSECONDS

Table 2

REPLY CODE

A

REPLY (AC20)

NOMINAL

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SECTION I

APP

| Key | MRC | Mode Code | Requirements |
|-----|-----|-----------|--------------|
| | | B | MINIMUM |
| | | C | MAXIMUM |

B*, C*, G*, H*, J*, K*, L*, M*, P*

BHTQ J PULSE RISE TIME PER CHANNEL

Definition: THE LENGTH OF TIME IT TAKES THE PULSE TO RISE PER CHANNEL.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below and from [Appendix A](#), Table 1, followed by the numeric value. (e.g., BHTQJEFAAAB1.250*; BHTQJEFAAAB1.125\$\$JEFCAB1.275*)

If the item has more than one channel, use And Coding \$\$, giving a reply for each, entering in Appendix A, Table 1 reply sequence. (e.g., BHTQJEFAAAG1.500\$\$JEFCAB1.250\$\$JEFCAB1.750*)

Table 1

REPLY CODE

AL

BK

EF

REPLY (AB49)

MICROSECONDS

MILLISECONDS

NANOSECONDS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

B*, C*, G*, H*, J*, K*, L*, M*, P*

BHTR J PULSE DECAY TIME PER CHANNEL

Definition: THE LENGTH OF TIME IT TAKES THE TRAILING EDGE OF THE PULSE TO FALL PER CHANNEL.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below and [Appendix A](#), Table 1, followed by the numeric value. (e.g., BHTRJALAAAB5.125*; BHTRJALBAAB5.000\$\$JALCAAB5.250*)

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Key MRC Mode Code Requirements

If the item has more than one channel, use And Coding \$\$, giving a reply for each, entering in Appendix A, Table 1 reply sequence. (e.g., BHTRJEFAAG1.500\$\$JEFBAAM1.120\$\$JEFCAM1.130*)

Table 1

REPLY CODE

AL

BK

EF

REPLY (AB49)

MICROSECONDS

MILLISECONDS

NANOSECONDS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

B*, C*, G*, H*, J*, K*, L*, M*, P*

BHTS H POLARITY PER CHANNEL

Definition: AN ELECTRICAL CONDITION DETERMINING THE DIRECTION IN WHICH CURRENT TENDS TO FLOW PER CHANNEL.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the applicable REPLY CODE from [Appendix A](#), Table 1. (e.g., BHTSHNAAG*)

If the item has more than one channel, use And Coding \$\$, giving a reply for each, entering in Appendix A, Table 1 reply sequence. (e.g., BHTSHNAAH\$\$HPAAJ*)

REPLY CODE

N

P

REPLY (AK22)

NEGATIVE

POSITIVE

B*, C*, G*, H*, J*, K*, L*, M*, P*

BHTT J PULSE REPETITION RATE PER CHANNEL

Definition: THE AVERAGE RATE AT WHICH THE PULSE(S) RECURS WITHIN A SPECIFIC TIME INTERVAL PER CHANNEL.

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Key MRC Mode Code Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below and from [Appendix A](#), Table 1, followed by the numeric value. (e.g., BHTTJAQAAAB500.000*; BHTTJAQBAAB500.125\$\$JAQCAAB500.200*)

For items with a specified range or more than one channel, use And Coding \$\$, entering replies in Appendix A, Table 1 reply sequence. (e.g., BHTTJAQAAAG500.000\$\$JEGBAAM125.650\$\$JEGCAAM150.000*)

Table 1

REPLY CODE

EG

EH

AQ

REPLY (AB49)

KILOPULSES PER SECOND

MEGAPULSES PER SECOND

PULSES PER SECOND

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

B*, C*, G*, H*, J*, K*, L*, M*, P*

BHTX J PULSE TRAIN CONTENT QUANTITY PER CHANNEL

Definition: THE NUMBER OF PULSES IN A GROUP PER CHANNEL.

Reply Instructions: Enter the applicable REPLY CODE from [Appendix A](#), Table 1, followed by the quantity. (e.g., BHTXJAAB1215*)

If the item has more than one channel, use And Coding \$\$, giving a reply for each, entering in Appendix A, Table 1 reply sequence. (e.g., BHTXJAAH1215\$\$JAAJ350*)

B*, C*, G*, H*, J*, K*, L*, M*, P*

BHTY H PULSE MODULATION TYPE PER CHANNEL

Definition: INDICATES THE TYPE OF PULSE MODULATION PER CHANNEL.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the applicable REPLY CODE from [Appendix A](#), Table 1. (e.g., BHTYHBQAAB*)

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Key MRC Mode Code Requirements

If the item has more than one channel, use And Coding \$\$, giving a reply for each, entering in Appendix A, Table 1 reply sequence. (e.g., BHTYHBQAAG\$\$HBQAAM*)

REPLY CODE

BQ
CP
CQ
BS
CR
CS

REPLY (AJ52)

AMPLITUDE
CODE
DURATION
FREQUENCY
POSITION
TIME

C, E, G, H, K

BHTZ H SIGNAL DATA TYPE PER CHANNEL

Definition: INDICATES THE TYPE OF SIGNAL DATA PER CHANNEL.

Reply Instructions: Enter the applicable Reply Codes from [Appendix A](#), Tables 1 and 2. (e.g., BHTZHAAGCT*)

If there is more than one channel or if more than one signal is processed on a single channel, use And Coding \$\$, entering multiple channel replies in Appendix A, Table 1 reply sequence. (e.g., BHTZHAACDC\$\$HAADDA*)

USE AND CODING \$\$ FOR MULTIPLE REPLIES IN THE SAME SEQUENCE AS ESTABLISHED FOR MRC BHTZ. NOTE FOR MRCS BHWB, BJBC, AND BJBF: REPLY TO THESE MRCS ONLY IF THE APPLICABILITY KEY IS H, AND REPLY CODE CX, DB, DJ, OR CS WAS SELECTED FROM APPENDIX A, TABLE 2, IN REPLY TO MRC BHTZ. USE AND CODING \$\$ FOR MULTIPLE REPLIES IN THE SAME SEQUENCE AS ESTABLISHED FOR MRC BHTZ

H* (See Note Above)

BHWB A REFERENCE POINT QUANTITY

Definition: THE NUMBER OF AVAILABLE REFERENCE POINTS.

Reply Instructions: Enter the quantity. (e.g., BHWBA4*; BHWBA1\$\$A1*)

H* (See Note Preceding MRC BHWB)

BJBC J REFERENCE POINT VALUE

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APP

Key MRC Mode Code Requirements

Definition: THE VALUE REPRESENTED BY THE GENERATED REFERENCE POINTS.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric value. (e.g., BJBCJAF500.000*; BJBCJDZ150.0*; BHBCJAE10.000\$\$JEA10.000*)

| <u>REPLY CODE</u> | <u>REPLY (AB49)</u> |
|-------------------|---------------------|
| AE | DEGREES (angular) |
| AF | FEET |
| EJ | KILOMETERS |
| DZ | METERS |
| AL | MICROSECONDS |
| EA | MILES |
| AR | SECONDS |
| AU | YARDS |

H* (See Note Preceding MRC BHWB)

BJBF A INTENSIFIED REFERENCE POINT QUANTITY

Definition: THE NUMBER OF REFERENCE POINTS THAT ARE INTENSIFIED.

Reply Instructions: Enter the quantity. (e.g., BJBFA100*; BJBFA30\$\$A50*)

F, L, N

ANKX D EMISSION TYPE

Definition: A CLASSIFICATION OF RADIO FREQUENCY EMISSIONS IN WHICH THE TYPE OF MODULATION, TRANSMISSION, AND/OR SUPPLEMENTARY CHARACTERISTICS ARE REPRESENTED BY SYMBOLS.

Reply Instructions: Enter the applicable REPLY CODE from [Appendix A](#), Table 3. (e.g., ANKXDAAF*)

For multiple replies, use And coding \$\$, entering replies in Appendix A, Table 3 reply sequence. (e.g., ANKXDAAQ\$\$DAAR*)

A*, N*, Q*

BJBG J DISTORTION TYPE AND PERCENT

Definition: INDICATES THE TYPE OF DISTORTION AND ITS PERCENT.

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Key MRC Mode Code Requirements

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric value. (e.g., BJBGBQ1.5*)

If distortion occurs in more than one function, use AND coding (\$\$), giving a reply for each, entering in reply table sequence. (e.g., BJBGJBQ1.5\$\$JBS2.0*)

| <u>REPLY CODE</u> | <u>REPLY (AJ52)</u> |
|-------------------|---------------------|
| BQ | AMPLITUDE |
| BS | FREQUENCY |
| BT | PHASE |

G*, K*

BJBS D CALIBRATION FUNCTION

Definition: A DESIGNATION OF THE FUNCTION WHICH IS CALIBRATED.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., BJBSDBS*)

If more than one function is calibrated, use AND coding (\$\$), entering replies in reply table sequence. (e.g., BJBSDBS\$\$DDQ*)

| <u>REPLY CODE</u> | <u>REPLY (AJ52)</u> |
|-------------------|---------------------|
| BS | FREQUENCY |
| DQ | IMPEDANCE |
| DS | PULSE DURATION |
| DR | PULSE REPETITION |

G*, K*

BJBH F CALIBRATED TOLERANCE IN PERCENT

Definition: THE LIMITS OF CALIBRATION, EXPRESSED IN PERCENT.

Reply Instructions: Enter the numeric values separated by a slash. Precede negative values with an M and positive values with a P. (e.g., BJBHFM1.5/P1.5*)

For multiple functions, use AND coding (\$\$), entering replies in the same sequence entered for MRC BJBS. (e.g., BJBHFM1.5/P1.5\$\$FM1.0/P1.0*)

G, M

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BJBJ D OUTPUT WAVE SHAPE

Definition: THE PHYSICAL CONFIGURATION OF THE OUTPUT WAVE.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., BJBJDACM*; BJBJDARA\$\$DASL\$\$DAMW*)

| <u>REPLY CODE</u> | <u>REPLY (AD07)</u> |
|-------------------|--------------------------------|
| ACM | COSINE |
| ACN | COSINE, SQUARED |
| AER | EXPONENTIAL, DAMPED CRITICALLY |
| AJK | ISOSCELES TRIANGULAR |
| AMS | PULSE, GATE |
| AMT | PULSE, SWEEP |
| AMW | PULSE, TRIGGER |
| AMX | PULSE, VARIABLE WIDTH |
| AND | RECTANGULAR |
| ARA | SAWTOOTH |
| ARB | SAWTOOTH, CLIPPED |
| BHM | SINE |
| ASL | SQUARE |
| AXN | TRAPEZOIDAL |

J

BJBK D INTERFERENCE PATTERN

Definition: AN INDICATION OF THE INTERFERENCE PATTERN OF THE ITEM.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., BJBKDAAB*)

| <u>REPLY CODE</u> | <u>REPLY (AN19)</u> |
|-------------------|--------------------------|
| AAF | RANDOM PULSED |
| AAG | RANDOM PULSED NOISE |
| AAB | REGULATED CONSTANT |
| AAC | REGULATED CONSTANT NOISE |
| AAD | REGULATED PULSED |
| AAE | REGULATED PULSED NOISE |

ALL *

ALBM D OPERATING CONTROL METHOD

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Definition: THE MEANS BY WHICH THE ITEM IS OPERATED OR CONTROLLED.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., ALBMDAB*; ALBMDAB\$DAF*)

| <u>REPLY CODE</u> | <u>REPLY (AH20)</u> |
|-------------------|---------------------|
| AB | AUTOMATIC |
| AF | MANUAL |

ALL *

AQZF D CONTROL TYPE

Definition: INDICATES THE TYPE OF CONTROL.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., AQZFDACK*; AQZFDACK\$DAAY*)

| <u>REPLY CODE</u> | <u>REPLY (AL37)</u> |
|-------------------|---------------------|
| ACK | LOCAL |
| AA Y | REMOTE |

ALL *

BJBL J INDICATOR DEVICE TYPE AND QUANTITY

Definition: INDICATES THE TYPE AND NUMBER OF INDICATOR DEVICE(S) INCLUDED.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the quantity. (e.g., BJBLJADS1*)

If more than one type is included, use AND coding (\$\$), entering replies in reply table sequence. (e.g., BJBLJADS1\$\$JACJ2*)

| <u>REPLY CODE</u> | <u>REPLY (AJ12)</u> |
|-------------------|---------------------|
| AKB | AUDIBLE ALARM |
| ADS | CATHODE RAY TUBE |
| AKK | HEADSET |
| ACE | LIGHT (lamp) |
| AKD | LOUDSPEAKER |
| ACJ | METER |

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SECTION I

| APP Key | MRC | Mode Code | Requirements |
|------------|-----|-----------|--------------|
|------------|-----|-----------|--------------|

ALL *

| | | |
|------|---|--|
| BJBM | B | MAXIMUM CONTINUOUS OPERATING TIME IN HOURS |
|------|---|--|

Definition: THE MAXIMUM TIME AN ITEM WILL CONTINUOUSLY RUN, EXPRESSED IN HOURS.

Reply Instructions: Enter the numeric value. (e.g., BJBMB6.7*)

ALL

| | | |
|------|---|--------------------------|
| AFSU | D | AVERAGE LIFE MEASUREMENT |
|------|---|--------------------------|

Definition: A TERM USED TO DENOTE THE SPECIFIC MEASUREMENT OF DURATION USED TO INDICATE THE AVERAGE LIFE OF THE ITEM.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., AFSUDB*)

| <u>REPLY CODE</u> | <u>REPLY (AE52)</u> |
|-------------------|---------------------|
| B | HOURS |
| C | INDEFINITE |
| N | NOT RATED |
| A | YEARS |

NOTE FOR MRC AFHH: REPLY TO THIS MRC ONLY IF REPLY CODE B OR A IS ENTERED FOR MRC AFSU.

ALL * (See Note Above)

| | | |
|------|---|---------------------|
| AFHH | B | AVERAGE LIFE RATING |
|------|---|---------------------|

Definition: THE NUMERIC VALUE OF THE LIFE EXPECTANCY OF THE ITEM.

Reply Instructions: Enter the numeric value. (e.g., AFHHB15.0*)

ALL *

| | | |
|------|---|-----------------------------------|
| AKAE | J | MAXIMUM OPERATING ALTITUDE RATING |
|------|---|-----------------------------------|

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Definition: THE MAXIMUM ALTITUDE AT WHICH THE ITEM IS RATED TO FUNCTION.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric value. (e.g., AKAEJF15000.0*; AKAEJM4500.0*)

| <u>REPLY CODE</u> | <u>REPLY (AA05)</u> |
|-------------------|---------------------|
| F | FEET |
| M | METERS |

ALL *

AFGA J OPERATING TEMP RANGE

Definition: THE MINIMUM AND MAXIMUM LIMITS OF TEMPERATURE AT WHICH THE ITEM IS RATED FOR OPERATION.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric values separated by a slash. Precede negative values with an M and positive values with a P. (e.g., AFGAJFM40.0/P100.0*)

| <u>REPLY CODE</u> | <u>REPLY (AB36)</u> |
|-------------------|---------------------|
| C | DEG CELSIUS |
| F | DEG FAHRENHEIT |

ALL *

AECR F VIBRATION RESISTANCE RANGE IN HERTZ

Definition: THE LOW AND HIGH FREQUENCIES OF VIBRATORY MOTION AND MECHANICAL STRESSES BETWEEN WHICH THE ITEM IS TESTED, OR OPERATED, WITHOUT DELETERIOUS EFFECT ON ITS ELECTRICAL OR MECHANICAL CHARACTERISTICS, EXPRESSED IN HERTZ.

Reply Instructions: Enter the numeric values separated by a slash. Precede all values with a P. (e.g., AECRFP10.0/P5000.0*)

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For multiple ranges, use AND coding (\$\$), entering replies in ascending numeric sequence. (e.g., AECRFP5.0/P15.0\$\$FP16.0/P25.0\$\$FP26.0/P33.0*)

ALL *

AFDN J VIBRATION RESISTANCE AMPLITUDE

Definition: THE AMPLITUDE OF VIBRATION FOR WHICH THE VIBRATION RESISTANCE FREQUENCY RANGE APPLIES.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric value. (e.g., AFDNJB10.0*)

For multiple ranges, use AND coding (\$\$), entering replies in the same sequence established for MRC AECR. (e.g., AFDNJB3.5\$\$JB6.5\$\$JB5.5*)

| <u>REPLY CODE</u> | <u>REPLY (AD97)</u> |
|-------------------|-----------------------------|
| D | CENTIMETERS TOTAL EXCURSION |
| B | GRAVITATIONAL UNITS |
| C | INCHES TOTAL EXCURSION |

ALL *

AFDP B SHOCK RESISTANCE RATING IN GRAVITATIONAL UNITS

Definition: THE MAXIMUM FORCE AT IMPACT THAT THE ITEM IS RATED TO WITHSTAND, WITHOUT RESULTING IN ANY PERMANENT CHANGE IN PHYSICAL OR ELECTRICAL CHARACTERISTICS, EXPRESSED IN GRAVITATIONAL UNITS (G's).

Reply Instructions: Enter the numeric value. (e.g., AFDPB50.0*)

ALL *

BJBN J SHOCK PULSE DURATION TIME

Definition: THE LENGTH OF TIME AFTER IMPACT THAT ESTABLISHED THE CONDITION AT WHICH THE SHOCK RESISTANCE RATING APPLIES.

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| | | | |
|-----|-----|-----------|--------------|
| APP | | | |
| Key | MRC | Mode Code | Requirements |

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric value. (e.g., BJB NJBK25.0*)

| | |
|-------------------|---------------------|
| <u>REPLY CODE</u> | <u>REPLY (AB49)</u> |
| AL | MICROSECONDS |
| BK | MILLISECONDS |

ALL *

BKFB J EXTERNAL DC OPERATING VOLTAGE IN VOLTS

Definition: THE VALUE(S) OF THE POTENTIAL SUPPLIED FROM AN EXTERIOR DIRECT CURRENT SOURCE TO OPERATE THE ITEM, EXPRESSED IN VOLTS.

Reply Instructions: Enter the applicable REPLY CODE from the table below and from [Appendix A](#), Table 5, followed by the numeric value. (e.g., BKFBJAAA12.0*; BKFBJBAA11.5\$\$JCAA12.5*)

For multiple replies, use And Coding \$\$, entering replies in Appendix A, Table 5 sequence. (e.g., BKFBJAAC190.0\$\$JBAD200.0\$JCAD250.0*)

| | |
|-------------------|---------------------|
| <u>REPLY CODE</u> | <u>REPLY (AC20)</u> |
| A | NOMINAL |
| B | MINIMUM |
| C | MAXIMUM |

ALL *

BKFC J EXTERNAL AC OPERATING VOLTAGE IN VOLTS

Definition: THE VALUE(S) OF THE POTENTIAL SUPPLIED FROM AN EXTERIOR ALTERNATING CURRENT SOURCE TO OPERATE THE ITEM, EXPRESSED IN VOLTS.

Reply Instructions: Enter the applicable REPLY CODE from the table below and from [Appendix A](#), Table 5, followed by the numeric value. (e.g., BKFCJAAA110.0*; BKFCJBAA100.0\$\$JCAA110.0*)

For multiple replies, use And Coding \$\$, entering replies in Appendix A, Table 5 sequence. (e.g., BKFCJAAC125.0\$\$JBAD130.0\$JCAD150.0*)

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| | | <u>REPLY CODE</u> | <u>REPLY (AC20)</u> |
|--|--|-------------------|---------------------|
| | | A | NOMINAL |
| | | B | MINIMUM |
| | | C | MAXIMUM |

ALL *

BJBQ J OPERATING AC FREQUENCY IN HERTZ

Definition: THE CYCLES PER SECOND (HERTZ) OF THE OPERATING ALTERNATING CURRENT.

Reply Instructions: Enter the applicable REPLY CODE from the table below and from [Appendix A](#), Table 5, followed by the numeric value. (e.g., BJBQJAAA60.0*; BJBQJBAA50.0\$\$JCAA60.0*)

If multiple AC voltages are given in the source data, use AND coding (\$\$), giving the frequency of each, entering replies in the same sequence as replies to MRC BKFC. (e.g., BJBQJAAC47.0\$\$JAAD395.0\$\$JAAD405.0*)

| <u>REPLY CODE</u> | <u>REPLY (AC20)</u> |
|-------------------|---------------------|
| A | NOMINAL |
| B | MINIMUM |
| C | MAXIMUM |

ALL *

FAAZ D PHASE

Definition: THE NUMBER OF ALTERNATING CURRENT PHASES.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., FAAZDA*)

If multiple AC voltages are given in the source data, use And Coding \$\$, entering the phase of each. (e.g., FAAZDA\$\$DC*)

| <u>REPLY CODE</u> | <u>REPLY (AD02)</u> |
|-------------------|---------------------|
| A | SINGLE |
| E | SINGLE/THREE |
| C | THREE |
| B | TWO |

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| | | | |
|-----|-----|-----------|--------------|
| APP | | | |
| Key | MRC | Mode Code | Requirements |

ALL *

BJBP H CONNECTION TYPE AND LOCATION

Definition: INDICATES THE TYPE OF CONNECTION AND ITS LOCATION ON THE ITEM.

Reply Instructions: Enter the applicable REPLY CODE from [Appendix A](#), Table 4, followed by the applicable REPLY CODE from the table below. (e.g., BJBPHFDABC*)

For multiple replies, use AND coding (\$\$), entering replies in location sequence. (e.g., BJBPHFHABC\$\$HFAABJ\$\$HFJABJ*)

| <u>REPLY CODE</u> | <u>REPLY (AJ91)</u> |
|-------------------|---------------------|
| ABA | BOTTOM |
| ABC | FRONT |
| ACF | LEFT SIDE |
| ABJ | REAR |
| ACR | RIGHT SIDE |
| ABD | TOP |

NOTE FOR MRC BJBW: REPLY TO THIS MRC IF OTHER THAN REPLY CODE FE OR FF WAS SELECTED FROM APPENDIX A, TABLE 4, IN REPLY TO MRC BJBP.

ALL * (See Note Above)

BJBW J CONNECTION CONTACT TYPE AND QUANTITY

Definition: INDICATES THE TYPE AND NUMBER OF CONTACT(S) INCLUDED IN THE CONNECTION.

Reply Instructions: Enter the applicable REPLY CODE from [Appendix A](#), Table 4, and from the table below, followed by the quantity. (e.g., BJBWJFCCT4*)

If multiple connections are included on the item, use AND coding (\$\$), entering a reply for each connection in Appendix A, Table 4 REPLY CODE sequence. (e.g., BJBWJFDCT12\$\$JFHCW23\$\$JFKCT14*)

| <u>REPLY CODE</u> | <u>REPLY (AG81)</u> |
|-------------------|---------------------|
| CW | EXTERNAL |
| CT | INTERNAL |

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NOTE FOR MRC BJBT: REPLY TO THIS MRC ONLY WHEN REPLY CODE FM OR FN WAS SELECTED FROM APPENDIX A, TABLE 4, FOR MRC BJBP.

ALL * (See Note Above)

BJBT J MAXIMUM CONNECTION PRESSURE RATING

Definition: THE MAXIMUM RATED PRESSURE THAT A CONNECTION CAN WITHSTAND WITHOUT RUPTURE.

Reply Instructions: Enter the applicable REPLY CODE from the table below and from [Appendix A](#), Table 4, followed by the numeric value. (e.g., BJBTJVFC300.0*; BJBTJKFC141.3*)

If multiple connections are included on the item, use AND coding (\$\$), entering a reply for each connection in the same sequence as established for MRC BJBP. (e.g., BJBTJVFC500.0\$\$JVFD300.0*)

| <u>REPLY CODE</u> | <u>REPLY (AB18)</u> |
|-------------------|---------------------------------|
| K | KILOGRAMS PER SQUARE CENTIMETER |
| V | POUNDS PER SQUARE INCH |

ALL

AKNA D INCLOSURE TYPE

Definition: INDICATES THE TYPE OF INCLOSURE PROVIDED TO COAT, COVER, PROTECT, OR ENCASE THE ITEM.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., AKNADAC*)

| <u>REPLY CODE</u> | <u>REPLY (AG85)</u> |
|-------------------|---------------------|
| AC | ENCAPSULATED |
| AN | ENCASED |
| AD | HERMETICALLY SEALED |
| AE | OPEN |
| AP | PARTIALLY INCLOSED |

ALL *

ADZC D ENVIRONMENTAL PROTECTION

APP
Key MRC Mode Code Requirements

Definition: THE ENVIRONMENTAL ELEMENTS OR CONDITIONS THAT AN ITEM IS DESIGNED OR PROTECTED TO RESIST OR WITHSTAND SATISFACTORILY.

Reply Instructions: Enter the applicable REPLY CODE from [Appendix A](#), Table 6. (e.g., ADZCDBV*)

For items designed to operate in more than one environment, use AND coding (\$\$), entering replies in Appendix A, Table 6 REPLY CODE sequence. (e.g., ADZCDCM\$\$DGN*)

NOTE FOR MRC AKAP: REPLY TO THIS MRC ONLY IF REPLY CODE CB OR CH IS ENTERED FOR MRC ADZC.

ALL * (See Note Above)

AKAP J PROOF PRESSURE

Definition: THE MAXIMUM PRESSURE THAT AN ITEM WILL WITHSTAND WITHOUT RESULTING IN ANY PERMANENT CHANGES IN ITS STRUCTURAL, MECHANICAL, OR ELECTRICAL CHARACTERISTICS.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric value. (e.g., AKAPJV500.0*; AKAPJK230.5*)

| <u>REPLY CODE</u> | <u>REPLY (AB18)</u> |
|-------------------|---------------------------------|
| K | KILOGRAMS PER SQUARE CENTIMETER |
| V | POUNDS PER SQUARE INCH |

ALL

AMQY D INSTALLATION DESIGN

Definition: THE INSTALLATION FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the applicable REPLY CODE from [Appendix A](#), Table 7. (e.g., AMQYDCB*; AMQYDCD\$\$DAZ*)

ALL

AGTA L BASIC SHAPE STYLE

APP
Key MRC Mode Code Requirements

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE BASIC APPEARANCE OF THE ITEM.

Reply Instructions: Enter the applicable REPLY CODE from [Appendix B](#), Reference Drawing Group A. (e.g., AGTAL1*)

ALL *

AJKH G IDENTIFICATION DESIGNATOR

Definition: A DESIGNATION ASSIGNED TO THE ITEM FOR PURPOSE OF READY IDENTIFICATION.

Reply Instructions: Enter the document designator, a dash, and the 5-position Commercial and Government Entity (CAGE) Code.

(e.g., AJKHGAM2016FPR2-80058*)

NOTE FOR MRCS CBBL AND FEAT: E MODE REPLIES WILL NOT BE ACCEPTED IN REPLY TO MRC CBBL. IF A REPLY IS NOT REFERENCED ON THE TABLE, ENTER THE FEATURE IN REPLY TO MRC FEAT.

ALL * (See Note Above)

CBBL D FEATURES PROVIDED

Definition: THOSE FEATURES, NOT OTHERWISE SPECIFIED, WHICH MAY BE REQUIRED FOR PROPER FUNCTIONING OF THE ITEM.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., CBBLDAABS*)

For multiple replies, use AND coding (\$\$), entering in REPLY CODE sequence. (e.g., CBBLDAABS\$\$DAABT*)

| | |
|-------------------|--------------------------------|
| <u>REPLY CODE</u> | <u>REPLY (AN47)</u> |
| AADS | AUTOMATIC GAIN CONTROL |
| AABT | INTERNAL BATTERY ACCOMMODATION |
| AABS | ZERO SHIFT CAPABILITY |

NOTE FOR MRC RADC: REPLY TO THIS MRC ONLY WHEN THE ITEM CONTAINS RADIOACTIVE MATERIAL. IF MRC RADC IS ANSWERED, A REPLY TO MRC RADD IN SECTION III IS MANDATORY.

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ALL * (See Note Above)

RADC D RADIOACTIVE CONTENT

Definition: AN INDICATION OF WHETHER OR NOT THE ITEM CONTAINS RADIOACTIVE MATERIALS.

Reply Instructions: Enter the REPLY CODE from the table below. (e.g., RADCDP*)

| <u>REPLY CODE</u> | <u>REPLY (AN54)</u> |
|-------------------|-------------------------------|
| P | CONTAINS RADIOACTIVE MATERIAL |

ALL * (See Note Preceding MRC CBBL)

FEAT G SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE*)

ALL*

TEST J TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

(e.g., TESTJA12345-CWX654321*;

TESTJA1234A-654321\$\$JB5556A-663654*;

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TESTJAA2345-654321\$JB55566-663654*)

| <u>REPLY CODE</u> | <u>REPLY (AC28)</u> |
|-----------------------|--|
| A | SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.) |
| B | STANDARD (Includes industry or association standards, individual manufacturer standards, etc.) |
| C | DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing) |

ALL*

SPCL G SPECIAL TEST FEATURES

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS*)

ALL *

AARG D RELIABILITY INDICATOR

Definition: AN INDICATION THAT THE LEVEL OF PROBABILITY THAT AN ITEM WILL OPERATE WITHOUT FAILURE, AT A SPECIFIED RATED CAPABILITY, AT A SPECIFIED TEMPERATURE, AND FOR A SPECIFIED PERIOD OF TIME, HAS BEEN ESTABLISHED BY TESTING RANDOM SAMPLES OF PRODUCTION LOT.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., AARGDE*)

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| | |
|-------------------|---------------------|
| <u>REPLY CODE</u> | <u>REPLY (AA61)</u> |
| E | ESTABLISHED |
| N | NOT ESTABLISHED |

ALL*

ZZZK J SPECIFICATION/STANDARD DATA

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B*;

ZZZKJS81349-MIL-D-180 REV1/CANCELED/*;

ZZZKJP80205-NAS1103*;

ZZZKJS81349-MIL-C-1140C/CE/*;

ZZZKJT81337-30642B\$\$JP80205-NAS1103*)

| | |
|-------------------|---|
| <u>REPLY CODE</u> | <u>REPLY (AN62)</u> |
| S | GOVERNMENT SPECIFICATION |
| T | GOVERNMENT STANDARD |
| D | MANUFACTURERS SOURCE CONTROL |
| R | MANUFACTURERS SPECIFICATION |
| N | MANUFACTURERS SPECIFICATION CONTROL |
| M | MANUFACTURERS STANDARD |
| B | NATIONAL STANDARD/SPECIFICATION |
| A | PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION |
| P | PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD |

| APP | | | |
|-----|-----|-----------|--------------|
| Key | MRC | Mode Code | Requirements |

NOTE FOR MRC ZZZT: IF THE SPECIFICATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL * (See Note Above)

| | | |
|------|---|-----------------------------|
| ZZZT | J | NONDEFINITIVE SPEC/STD DATA |
|------|---|-----------------------------|

Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

Reply Instructions: Enter the applicable REPLY CODE from [Appendix A](#), Table 8, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1*; ZZZTJTY1\$\$JSTA*; ZZZTJTY1\$JSTA*)

ALL*

| | | |
|------|---|-------------------------------|
| ZZZW | G | DEPARTURE FROM CITED DOCUMENT |
|------|---|-------------------------------|

Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL*)

ALL*

| | | |
|------|---|---------------------------------|
| ZZZX | G | DEPARTURE FROM CITED DESIGNATOR |
|------|---|---------------------------------|

Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL*)

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SECTION I

| APP Key | MRC | Mode Code | Requirements |
|------------|-----|-----------|--------------|
|------------|-----|-----------|--------------|

ALL*

| | | |
|------|---|---|
| ZZZY | G | REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS |
|------|---|---|

Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS*; ZZZYGAS DIFFERENTIATED BY MATERIAL*)

ALL*

| | | |
|------|---|--------------------------------|
| CRTL | A | CRITICALITY CODE JUSTIFICATION |
|------|---|--------------------------------|

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL*; CRTLAMATL\$\$ASURF*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.

ALL* (See Note Above)

| | | |
|------|---|-----------------------------|
| PRPY | A | PROPRIETARY CHARACTERISTICS |
|------|---|-----------------------------|

Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.

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APP

Key MRC Mode Code Requirements

Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS*; PRPYANPAC*; PRPYAMATL\$\$ASURF*)

ALL*

ELRN G EXTRA LONG REFERENCE NUMBER

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365*).

If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

NOTE FOR MRC NHCF: IF THE CRITICALITY CODE IS E, H, OR M, REPLY TO MRC NHCF.

ALL* (See Note Above)

NHCF D NUCLEAR HARDNESS CRITICAL FEATURE

Definition: AN INDICATION OF THE NUCLEAR HARDNESS CRITICALITY OF THE ITEM.

Reply Instructions: Enter the Reply Code from the table below. (e.g., NHCFCY*)

REPLY CODE
CY

REPLY (AD05)
HARDENED

ALL*

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SECTION I

| APP Key | MRC | Mode Code | Requirements |
|--|------|-----------------------|---|
| | ELCD | D | EXTRA LONG CHARACTERISTIC DESCRIPTION |
| Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS. | | | |
| Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA*) | | | |
| | | <u>REPLY CODE</u> | <u>REPLY (AN58)</u> |
| | | A | ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD |

SECTION III

| APP Key | MRC | Mode Code | Requirements |
|--|------|-------------------|----------------------------|
| ALL | | | |
| | BJBR | J | MAXIMUM POWER DRAIN RATING |
| Definition: THE MAXIMUM POWER DRAIN FOR WHICH THE ITEM IS RATED. | | | |
| Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric value. (e.g., BJBRJBC1.2*) | | | |
| | | <u>REPLY CODE</u> | <u>REPLY (AB49)</u> |
| | | BC | KILOWATTS |
| | | BZ | MILLIWATTS |
| | | AT | WATTS |

ALL

ABBH D INCLOSURE MATERIAL

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE
INCLOSURE IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

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SECTION I

APP
Key MRC Mode Code Requirements

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., ABBHDALC000*)

| <u>REPLY CODE</u> | <u>REPLY (AD09)</u> |
|-------------------|---------------------|
| ALC000 | ALUMINUM |
| BR0000 | BRASS |
| PC0000 | PLASTIC |
| ST0000 | STEEL |
| STD000 | STEEL, STAINLESS |
| WD0000 | WOOD |

ALL

HUES D COLOR

Definition: A CHARACTERISTIC OF LIGHT THAT CAN BE SPECIFIED IN TERMS OF LUMINANCE, DOMINANT WAVELENGTH, AND PURITY.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., HUESDBL0000*)

| <u>REPLY CODE</u> | <u>REPLY (AD06)</u> |
|-------------------|---------------------|
| BL0000 | BLACK |
| GY0000 | GRAY |
| NA0000 | NATURAL |
| LD0000 | OLIVE DRAB |

ALL

ABSW D SURFACE LUSTER

Definition: THE APPEARANCE OF THE SURFACE OF AN ITEM AS TO ITS REFLECTING QUALITIES.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., ABSWDB*)

| <u>REPLY CODE</u> | <u>REPLY (AB46)</u> |
|-------------------|---------------------|
| G | HAMMERED |
| B | MATTE (dull) |
| A | MIRROR (glossy) |
| H | SCRATCH GRAIN |
| J | WRINKLE |

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SECTION I

| APP Key | MRC | Mode Code | Requirements |
|------------|-----|-----------|--------------|
|------------|-----|-----------|--------------|

ALL

| | | |
|------|---|------------------|
| MARK | G | SPECIAL MARKINGS |
|------|---|------------------|

Definition: MARKINGS INCLUDED ON AN ITEM FOR THE PURPOSE OF OFFERING INSTRUCTIONS OR WARNINGS OR TO INDICATE THE PURPOSE, FUNCTION, OR APPLICATION OF THE ITEM. EXCLUDES MANUFACTURERS PART NUMBERS, SYMBOLS, OR THE LIKE.

Reply Instructions: Enter all special markings in clear text. Separate multiple replies with a semicolon.

(e.g., MARKGDANGER - HIGH VOLTAGE*;

MARKGFLAMMABLE; FRAGILE*)

ALL

| | | |
|------|---|--------------------------|
| BBRJ | D | SPECIAL HANDLING FEATURE |
|------|---|--------------------------|

Definition: THE UNUSUAL OR UNIQUE CHARACTERISTIC(S) OR QUALITY(IES) OF AN ITEM WHICH NECESSITATES THE ESTABLISHMENT OF A REQUIREMENT FOR SPECIAL HANDLING.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., BBRJDAC*)

| <u>REPLY CODE</u> | <u>REPLY (AM83)</u> |
|-------------------|---------------------|
| AC | EXPLOSIVE |
| AD | FLAMMABLE |
| AE | FRAGILE |
| AK | MAGNETIC |
| AH | RADIOACTIVE |

NOTE FOR MRC AFJN: REPLY TO THIS MRC ONLY IF REPLY CODE AE IS ENTERED FOR MRC BBRJ.

ALL (See Note Above)

| | | |
|------|---|------------------|
| AFJN | D | FRAGILITY FACTOR |
|------|---|------------------|

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SECTION I

APP

Key MRC Mode Code Requirements

Definition: THE MEASURE OF SENSITIVITY OF THE ITEM TO BE PACKAGED. A FACTOR USED BY PACKAGING ENGINEERS IN DEVISING PROPER CUSHIONING IN A PACKAGE.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., AFJNDC*)

| <u>REPLY CODE</u> | <u>REPLY (AD40)</u> |
|-------------------|---------------------|
| D | DELICATE |
| B | EXTREMELY FRAGILE |
| E | MODERATELY DELICATE |
| F | MODERATELY RUGGED |
| G | RUGGED |
| C | VERY DELICATE |

ALL

BBRG D STORAGE TYPE

Definition: INDICATES THE TYPE OF STORAGE SPACE REQUIRED FOR AN ITEM IN ORDER TO PROVIDE THE DEGREE OF PROTECTION NECESSARY TO MAINTAIN SERVICEABILITY STANDARDS.

Reply Instructions: Enter the applicable REPLY CODE from [Appendix A](#), Table 9. (e.g., BBRGDAC*)

NOTE FOR MRC RADD: REPLY TO THIS MRC IF A REPLY IS ENTERED FOR MRC RADDC IN SECTION I.

ALL (See Note Above)

RADD J RADIONUCLIDES DATA

Definition: THE NAME AND AMOUNT OF THE RADIONUCLIDE.

Reply Instructions: Enter the applicable Reply Codes from the table below and [Appendix A](#), Table 10, followed by the numeric value. (e.g., RADDJJFAAAD10.000*)

Where radioactivity varies from one sample to another, enter the maximum value.

| <u>REPLY CODE</u> | <u>REPLY (AG67)</u> |
|-------------------|---------------------|
| JF | CURIES |
| JH | MICROCURI |

FIIG A322
SECTION I

APP

| Key | MRC | Mode Code | Requirements |
|-----|-----|-----------|--------------|
|-----|-----|-----------|--------------|

JG

MILLICURIES

ALL

| | | |
|------|---|--------------------|
| AFJQ | J | STORAGE TEMP RANGE |
|------|---|--------------------|

Definition: THE MINIMUM AND MAXIMUM TEMPERATURES AT WHICH AN ITEM CAN BE STORED WITHOUT DETRIMENTAL EFFECT.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric values separated by a slash. Precede negative values with an M and positive values with a P. (e.g., AFJQJFM10.0/P110.0*; AFJQJCM22.0/P42.0*)

REPLY CODE

C
F

REPLY (AB36)

DEG CELSIUS
DEG FAHRENHEIT

ALL

| | | |
|------|---|-------------------------|
| AGAV | G | END ITEM IDENTIFICATION |
|------|---|-------------------------|

Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.

Reply Instructions: Enter the applicable reply in clear text.

(e.g., AGAVG3930-00-000-0000*;

AGAVGFORKLIFT TRUCK, SMITH CORPORATION, MODEL 12, TYPE A*)

ALL

| | | |
|------|---|---------------|
| AFJK | J | CUBIC MEASURE |
|------|---|---------------|

Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the numeric value. (e.g., AFJKJF27.000*; AFJKJC8.1*)

REPLY CODE

C

REPLY (AD42)

CUBIC CENTIMETERS

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SECTION I

| APP Key | MRC | Mode Code | Requirements |
|------------|-----|-----------|--------------|
| | | F | CUBIC FEET |
| | | B | CUBIC INCHES |
| | | E | CUBIC METERS |

ALL

PRMT D PRECIOUS MATERIAL

Definition: IDENTIFICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., PRMTDAGA000*; PRMTDAUA000\$\$DAGA000*; PRMTDAGA000\$DAUA000*)

| <u>REPLY CODE</u> | <u>REPLY (MA01)</u> |
|-------------------|---------------------|
| AUA000 | GOLD |
| IRA000 | IRIDIUM |
| AZA000 | OSMIUM |
| PDA000 | PALLADIUM |
| PTA000 | PLATINUM |
| RHA000 | RHODIUM |
| RTA000 | RUTHENIUM |
| AGA000 | SILVER |

ALL

PMWT J PRECIOUS MATERIAL AND WEIGHT

Definition: AN INDICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM, AND THE AMOUNT PER A MEASUREMENT SCALE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. Enter multiple replies in Table 1 sequence. (e.g., PMWTJPTA000R0.780*; PMWTJAUA000F0.500\$\$JAGA000R0.780*; PMWTJAUA000F0.500\$JAGA000R0.780*)

| <u>Table 1</u> | |
|-------------------|---------------------|
| <u>REPLY CODE</u> | <u>REPLY (MA01)</u> |
| AUA000 | GOLD |
| IRA000 | IRIDIUM |
| AZA000 | OSMIUM |
| PDA000 | PALLADIUM |
| PTA000 | PLATINUM |
| RHA000 | RHODIUM |
| RTA000 | RUTHENIUM |

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SECTION I

APP

| Key | MRC | Mode Code | Requirements |
|-----|-----|-----------|--------------|
|-----|-----|-----------|--------------|

AGA000

SILVER

Table 2

REPLY CODE

E

R

F

REPLY (AG14)

GRAINS, TROY

GRAMS

OUNCES, TROY

ALL

PMLC

J

PRECIOUS MATERIAL AND LOCATION

Definition: AN INDICATION OF THE PRECIOUS MATERIAL AND ITS LOCATION IN THE ITEM.

Reply Instructions: Enter the applicable REPLY CODE from the table below, followed by the location in clear text. (e.g., PMLCJUAUA000TERMINALS*; PMLCJUAUA000TERMINALS\$\$JAGA000INTERNAL SURFACES*; PMLCJAGA000TERMINALS\$JUAUA000INTERNAL SURFACES*)

REPLY CODE

AUA000

IRA000

AZA000

PDA000

PTA000

RHA000

RTA000

AGA000

REPLY (MA01)

GOLD

IRIDIUM

OSMIUM

PALLADIUM

PLATINUM

RHODIUM

RUTHENIUM

SILVER

ALL

SUPP

G

SUPPLEMENTARY FEATURES

Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT*)

ALL

| APP Key | MRC | Mode Code | Requirements |
|------------|--|-----------|-----------------------------------|
| | FCLS | A | FUNCTIONAL CLASSIFICATION |
| | Definition: THE ALPHA-NUMERIC DESIGNATION THAT IDENTIFIES THE CLASSIFICATION OF THE ITEM ACCORDING TO THE CATEGORY OF FUNCTIONS PERFORMED. | | |
| | Reply Instructions: Enter the reply from the applicable document. | | |
| | (e.g., FCLSAHH-1.5*) | | |
| ALL | | | |
| | FTLD | G | FUNCTIONAL DESCRIPTION |
| | Definition: DESCRIBES THE CAPABILITIES, INTENDED USE, AND/OR PURPOSE FOR WHICH THE ITEM IS PROVIDED. | | |
| | Reply Instructions: Enter description of function as concisely as possible. (e.g., FTLDGUSED TO INSTALL/REMOVE ENGINE NACELLE*) | | |
| ALL | | | |
| | TMDN | A | TYPE/MODEL DESIGNATION |
| | Definition: THE ALPHA-NUMERIC-ALPHA DESIGNATION USED TO IDENTIFY THE TYPE AND/OR MODEL OF THE BASIC ITEM. | | |
| | Reply Instructions: Enter the appropriate designation data. | | |
| | (e.g., TMDNAMS V-615/M*) | | |
| ALL | | | |
| | RTSE | G | RELATIONSHIP TO SIMILAR EQUIPMENT |
| | Definition: INDICATES THE RELATIONSHIP, SUCH AS CONSTRUCTION, CAPABILITIES, AND THE LIKE, OF THE ITEM TO A SIMILAR ITEM. | | |
| | Reply Instructions: Enter concise statement for similar item including name and identifying data. | | |
| | (e.g., RTSEGSIMILAR TO LOCKHEED OVERWING ENGINE HOIST P/N 61521-58*) | | |
| ALL | | | |

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SECTION I

| APP Key | MRC | Mode Code | Requirements |
|------------|---|-----------|-------------------------------------|
| | RDAL | G | REFERENCE DATA AND LITERATURE |
| | Definition: LITERATURE AND REFERENCES AVAILABLE FOR INFORMATION PERTAINING TO THE ITEM. | | |
| | Reply Instructions: Enter data appropriate and in a concise manner to identify informational references covering the item. | | |
| | (e.g., RDALGNAAVAIROIA/VFK58 A-2.2.9*) | | |
| ALL | | | |
| | NTRD | A | ENTRY DATE |
| | Definition: INDICATES THE DATE THE ITEM WAS ENTERED INTO MIL-HDBK-300. | | |
| | Reply Instructions: Enter the date structured in three hyphenated 2 position segments to indicate the last 2 digits of the calendar year, month, and day. | | |
| | (e.g., NTRDA80-05-28*) | | |
| ALL | | | |
| | ZZZP | J | PURCHASE DESCRIPTION IDENTIFICATION |
| | Definition: THE CONTROLLING ACTIVITY AND IDENTIFICATION OF A DOCUMENT USED IN LIEU OF A SPECIFICATION IN THE PROCUREMENT OF AN ITEM OF SUPPLY. | | |
| | Reply Instructions: Enter the 5-position Commercial and Government Entity (CAGE) Code, followed by a dash and the identifying number of the document. | | |
| | (e.g., ZZZPJ81337-30624A*) | | |
| ALL | | | |
| | ZZZV | G | FSC APPLICATION DATA |
| | Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY. | | |
| | Reply Instructions: Enter the name of the next higher classifiable assembly in clear text. (e.g., ZZZVG COUNTER MEASURES SETS*) | | |

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SECTION I

| APP Key | MRC | Mode Code | Requirements |
|------------|-----|-----------|--------------|
|------------|-----|-----------|--------------|

ALL

| | | |
|------|---|----------------------|
| HZRD | D | HAZARDOUS SUBSTANCES |
|------|---|----------------------|

Definition: THE SUBSTANCES AND/OR MATERIALS CONTAINED IN THE ITEM THAT HAVE BEEN IDENTIFIED AS HAZARDOUS OR ENVIRONMENTALLY DAMAGING BY THE ENVIRONMENTAL PROTECTION AGENCY OR OTHER AUTHORIZED GOVERNMENT AGENCY.

Reply Instructions: Enter the applicable REPLY CODE from the table below. (e.g., HZRDDHAZ035*)

| |
|-------------------|
| <u>REPLY CODE</u> |
| HAZ035 |

| |
|---------------------|
| <u>REPLY (HZ00)</u> |
| RADIOACTIVE |

ALL *

| | | |
|------|---|--|
| CXCY | G | PART NAME ASSIGNED BY CONTROLLING AGENCY |
|------|---|--|

Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM.

Reply Instructions: Enter the reply in clear text. (e.g., CXCYGLINE PROCESSOR CONTROL BOARD*)

Reply Tables

| | |
|--|----|
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Table 1 - CHANNEL DATA
CHANNEL DATA

| <u>REPLY CODE</u> | <u>REPLY (AN18)</u> |
|-------------------|-----------------------|
| AAG | INPUT CHANNEL |
| AAB | OPERATING CHANNEL |
| AAM | OUTPUT CHANNEL |
| AAH | 1ST INPUT CHANNEL |
| AAC | 1ST OPERATING CHANNEL |
| AAN | 1ST OUTPUT CHANNEL |
| AAJ | 2ND INPUT CHANNEL |
| AAD | 2ND OPERATING CHANNEL |
| AAP | 2ND OUTPUT CHANNEL |
| AAK | 3RD INPUT CHANNEL |
| AAE | 3RD OPERATING CHANNEL |
| AAQ | 3RD OUTPUT CHANNEL |
| AAL | 4TH INPUT CHANNEL |
| AAF | 4TH OPERATING CHANNEL |
| AAR | 4TH OUTPUT CHANNEL |
| AAS | 5TH INPUT CHANNEL |
| AAT | 5TH OUTPUT CHANNEL |
| AAU | 6TH INPUT CHANNEL |
| AAW | 6TH OUTPUT CHANNEL |
| AAV | 7TH INPUT CHANNEL |
| ABD | 7TH OUTPUT CHANNEL |
| ABA | 8TH INPUT CHANNEL |
| ABF | 8TH OUTPUT CHANNEL |
| ABB | 9TH INPUT CHANNEL |
| ABG | 9TH OUTPUT CHANNEL |
| AAX | 10TH INPUT CHANNEL |

| <u>REPLY CODE</u> | <u>REPLY (AN18)</u> |
|-------------------|---------------------|
| ABC | 10TH OUTPUT CHANNEL |
| AAZ | 11TH INPUT CHANNEL |
| AAZ | 12TH INPUT CHANNEL |
| ABH | 13TH INPUT CHANNEL |

Table 2 - SINGLE DATA TYPES
SINGLE DATA TYPES

| <u>REPLY CODE</u> | <u>REPLY (AJ52)</u> |
|-------------------|--------------------------|
| CT | ANALOG VOLTAGE |
| CW | AUDIO FREQUENCY |
| CX | AZIMUTH |
| CY | DIGITAL |
| CZ | DISCRETE CURRENT |
| DA | DISCRETE VOLTAGE |
| DB | ELEVATION |
| DC | ERROR |
| DD | INTERRUPTED TRANSMISSION |
| DE | PROPORTIONAL |
| AW | PULSE |
| DF | PULSE, AMPLITUDE |
| DG | PULSE DELAY |
| DH | PULSE MODULATION |
| DK | RADIO FREQUENCY |
| DJ | RANGE |
| DL | RESOLVER |
| EQ | SELF-TEST |
| DM | SERVO |
| DN | SWEEP |
| DP | SYNCHRO |
| CS | TIME |
| BE | VIDEO |

Table 3 - EMISSION TYPES
EMISSION TYPES

| <u>REPLY CODE</u> | <u>REPLY (AJ76)</u> |
|-------------------|--|
| ABH | AO (with no Modulation) |
| AAT | A1 (Telegraphy without the use of a Modulating Audio Frequency by On-Off Keying) |
| AAM | A2 (Telegraphy by the On-Off Keying of an Amplitude Modulating Audio Frequency or Audio Frequencies or by the On-Off Keying of the Modulated Emission) |
| AAZ | A3 (Telephony Double Sideband) |
| ABB | A3A (Telephony, Single Sideband(s), Reduced Carrier) |
| ABD | A3B (Telephony, Two Independent Sidebands) |
| ABC | A3J (Telephony, Single Sideband(s), Suppressed Carrier) |

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APPENDIX A

| <u>REPLY CODE</u> | <u>REPLY (AJ76)</u> |
|-----------------------|---|
| AAH | A4 (Facsimile with Modulation of Main Carrier either Directly or by a Frequency Modulated Subcarrier) |
| AAG | A4A (Facsimile Single Sideband, Reduced Carrier) |
| ABG | A5C (Television Vestigial Sideband) |
| AAK | A7A (Multichannel Voice Frequency Telegraphy, Single Sideband, Reduced Carrier) |
| AAC | A9B (Telephony and Telegraphy Combination, Two Independent Sidebands) |
| AAL | F1 (Telegraphy by Frequency Shift Keying without the Use of a Modulating Audio Frequency. One of two Frequencies being Emitted at any Instant.) |
| AAN | F2 (Telegraphy by the On-Off Keying of a Frequency Modulating Audio Frequency or by the On-Off Keying of Frequency Modulated Emission) |
| AAW | F3 (Telephony) |
| ABQ | F3D (Telephony, Amplitude Modulated Pulses) |
| AAF | F4 (Facsimile by Direct Frequency Modulation of the Carrier) |
| ABF | F5 (Television) |
| AAJ | F6 (Four Frequency Diplex Telegraphy) |
| AAD | F9 (Frequency Modulated Main Carrier) |
| AAB | P0 (Pulsed Carrier w/o Modulation) |
| AAS | P1D (Telegraphy by the On-Off Keying of a Pulses Carrier Without the use of a Modulating Audio Frequency) |
| AAP | P2D (Telegraphy by the On-Off Keying of a Modulating Audio Frequency or Audio Frequencies, or by the On-Off Keying of a Modulated Pulses Carrier Audio Frequency or Frequencies Modulating the Amplitude of the Pulse) |
| AAR | P2E (Telegraphy by the On-Off Keying of a Modulating Audio Frequency or Audio Frequencies, or by the On-Off Keying of a Modulated Pulses Carrier Audio Frequency or Audio Frequencies Modulating the Width or Duration of the Pulses) |
| AAQ | P2F (Telegraphy by the On-Off Keying of a Modulating Audio Frequency or Audio Frequencies, or by the On-Off Keying of a Modulated Pulse Carrier Audio Frequency or Frequencies Modulating the Phase or Position of the Pulses) |
| ABE | P3E (Telephony, Width or Duration Modulated Pulses) |
| ABA | P3F (Telephony, Phase or Position Modulated Pulses) |
| AAZ | P3G (Telephony, Code Modulated Pulses after Sampling Quantization) |
| AAE | P9 (Pulse Modulated Main Carrier) |

Table 4 - CONNECTION TYPES
CONNECTION TYPES

| <u>REPLY CODE</u> | <u>REPLY (AB76)</u> |
|-------------------|-------------------------------|
| SM | BINDING POST |
| WK | CONNECTOR, PLUG |
| FF | DUAL PANEL JACK |
| WW | GROUND TERMINAL |
| FA | INTEGRAL CABLE W/AUDIO PLUG |
| FB | INTEGRAL CABLE W/COAXIAL PLUG |
| FC | INTEGRAL CABLE W/POWER PLUG |
| FD | INTEGRAL CORD W/POWER PLUG |
| JM | PIN |

| <u>REPLY CODE</u> | <u>REPLY (AB76)</u> |
|-------------------|----------------------------|
| FM | PRESSURIZED COAXIAL PLUG |
| FN | PRESSURIZED COAXIAL SOCKET |
| FL | PRINTED CIRCUIT |
| FG | RECEPTACLE, AUDIO |
| FH | RECEPTACLE, COAXIAL |
| FJ | RECEPTACLE, POWER |
| FE | SINGLE PANEL JACK |
| PE | SOCKET |
| RN | SOLDER LUG |
| SQ | SOLDER STUD |
| BU | SURFACE MOUNT |
| FK | TERMINAL BLOCK W/SCREW |
| SS | TERMINAL LUG |
| ST | TERMINAL STUD |
| RC | WIRE LEAD TERMINALS |

Table 5 - VOLTAGE REFERENCES
(lowest to highest)

VOLTAGE REFERENCES

| <u>REPLY CODE</u> | <u>REPLY (AD88)</u> |
|-------------------|---------------------|
| AA | SINGLE VOLTAGE |
| AC | 1ST VOLTAGE |
| AD | 2ND VOLTAGE |
| AE | 3RD VOLTAGE |
| AF | 4TH VOLTAGE |
| AG | 5TH VOLTAGE |
| AH | 6TH VOLTAGE |
| AJ | 7TH VOLTAGE |
| AK | 8TH VOLTAGE |
| AL | 9TH VOLTAGE |
| AM | 10TH VOLTAGE |
| AN | 11TH VOLTAGE |
| AP | 12TH VOLTAGE |
| AQ | 13TH VOLTAGE |

Table 6 - ENVIRONMENTAL PROTECTIONS
ENVIRONMENTAL PROTECTIONS

| <u>REPLY CODE</u> | <u>REPLY (AA65)</u> |
|-------------------|------------------------|
| AB | ACID RESISTANT |
| CM | DRIPTIGHT |
| GL | DUST TIGHT |
| BV | DUSTPROOF |
| CS | ELECTRICALLY INSULATED |

| <u>REPLY CODE</u> | <u>REPLY (AA65)</u> |
|-------------------|------------------------------|
| AFC | ELECTROMAGNETICALLY SHIELDED |
| BW | EXPLOSION PROOF |
| GN | FUNGUS PROOF |
| CV | GENERAL PURPOSE |
| GS | MOISTURE PROOF |
| CA | OIL TIGHT |
| CH | PRESSURE PROOF |
| CB | PRESSURIZED |
| CJ | RAINTIGHT |
| GW | SALT SPRAY RESISTANT |
| HA | SHOCK RESISTANT |
| CP | SPLASH PROOF |
| CK | SUBMERSIBLE |
| CC | VIBRATION |
| BX | WATERTIGHT |
| AR | WEATHERPROOF |

Table 7 - INSTALLATION DESIGNS
INSTALLATION DESIGNS

| <u>REPLY CODE</u> | <u>REPLY (AJ17)</u> |
|-------------------|---|
| AW | DRAWER |
| AC | FREE-STANDING |
| CB | FREE-STANDING WITH CASTERS |
| AE | FREE-STANDING WITH LEGS |
| CC | MECHANICAL (bolt holes, brackets, clips; For chassis installation.) |
| AK | MOBILE |
| CD | MODULE (plug in) |
| AP | PANEL |
| AF | PORTABLE |
| AZ | RACK |
| AD | TOP OF CABINET/COUNTER |
| AM | TRANSPORTABLE |

Table 8 - NONDEFINITIVE SPEC/STD DATA
NONDEFINITIVE SPEC/STD DATA

| <u>REPLY CODE</u> | <u>REPLY (AD08)</u> |
|-------------------|---------------------|
| AL | ALLOY |
| AN | ANNEX |
| AP | APPENDIX |
| AC | APPLICABILITY CLASS |
| AR | ARRANGEMENT |
| AS | ASSEMBLY |
| AB | ASSORTMENT |
| BX | BOX |

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| <u>REPLY CODE</u> | <u>REPLY (AD08)</u> |
|-------------------|---------------------|
| CY | CAPACITY |
| CA | CASE |
| CT | CATEGORY |
| CL | CLASS |
| CE | CODE |
| CR | COLOR |
| CC | COMBINATION CODE |
| CN | COMPONENT |
| CP | COMPOSITION |
| CM | COMPOUND |
| CD | CONDITION |
| CS | CONSTRUCTION |
| DE | DESIGN |
| DG | DESIGNATOR |
| DW | DRAWING NUMBER |
| EG | EDGE |
| EN | END |
| FY | FAMILY |
| FG | FIGURE |
| FN | FINISH |
| FM | FORM |
| FA | FORMULA |
| GR | GRADE |
| GP | GROUP |
| BA | IMAGE COLOR |
| NS | INSERT |
| TM | ITEM |
| KD | KIND |
| KT | KIT |
| LG | LENGTH |
| LT | LIMIT |
| MK | MARK |
| AA | MARKER |
| ML | MATERIAL |
| BB | MAXIMUM DENSITY |
| MH | MESH |
| ME | METHOD |
| BC | MINIMUM DENSITY |
| MD | MODEL |
| MT | MOUNTING |
| NR | NUMBER |
| PT | PART |
| PN | PATTERN |
| PC | PHYSICAL CONDITION |
| PS | PIECE |
| PL | PLAN |
| PR | POINT |
| QA | QUALITY |

| <u>REPLY CODE</u> | <u>REPLY (AD08)</u> |
|-------------------|---------------------|
| RN | RANGE |
| RT | RATING |
| RF | REFERENCE NUMBER |
| SC | SCHEDULE |
| SB | SECTION |
| SL | SELECTION |
| SE | SERIES |
| SV | SERVICE |
| SX | SET |
| SA | SHADE |
| SH | SHAPE |
| SG | SHEET |
| SZ | SIZE |
| PZ | SPECIES |
| SQ | SPECIFICATION SHEET |
| SD | SPEED |
| ST | STYLE |
| SS | SUBCLASS |
| SF | SUBFORM |
| SP | SUBTYPE |
| SN | SURFACE CONDITION |
| SY | SYMBOL |
| SM | SYSTEM |
| TB | TABLE |
| TN | TANNAGE |
| TP | TEMPER |
| TX | TEXTURE |
| TK | THICKNESS |
| TT | TREATMENT |
| TR | TRIM |
| TY | TYPE |
| YN | UNIT |
| VA | VARIETY |
| WT | WEIGHT |
| WD | WIDTH |

Table 9 - STORAGE DATA
STORAGE DATA

| <u>REPLY CODE</u> | <u>REPLY (AM81)</u> |
|-------------------|-------------------------------|
| AC | CLOSED SHED |
| AD | CONTROLLED HUMIDITY WAREHOUSE |
| AM | DEHUMIDIFIED WAREHOUSE |
| AE | GENERAL PURPOSE WAREHOUSE |
| AN | HEATED WAREHOUSE |
| AH | OPEN SHED |
| AJ | UNHEATED WAREHOUSE |

Table 10 - RADIONUCLIDES DATA
RADIONUCLIDES DATA

| <u>REPLY CODE</u> | <u>MATERIAL ELEMENT</u> | <u>RADIONUCLIDES (AN55)</u> |
|-----------------------|-------------------------|-----------------------------|
| AAAB | ACTINIUM (89) | AC-227 |
| AAAC | ACTINIUM (89) | AC-228 |
| AAAD | AMERICIUM (95) | AM-241 |
| AAAE | AMERICIUM (95) | AM-243 |
| AAAF | ANTIMONY (51) | SB-122 |
| AAAG | ANTIMONY (51) | SB-124 |
| AAAH | ANTIMONY (51) | SB-125 |
| AAAJ | ARGON (18) | AR-37 |
| AAAK | ARGON (18) | AR-41 |
| AAAL | ARGON (18) | AR-41, UNCOMPRESSED |
| AAAM | ARSENIC (33) | AS-73 |
| AAAN | ARSENIC (33) | AS-74 |
| AAAP | ARSENIC (33) | AS-76 |
| AAAQ | ARSENIC (33) | AS-77 |
| AAAR | ASTATINE (85) | AT-211 |
| AAAS | BARIUM (56) | BA-131 |
| AAAT | BARIUM (56) | BA-133 |
| AAAW | BARIUM (56) | BA-140 |
| AAAX | BERKELIUM (97) | BK-249 |
| AAAY | BERYLLIUM (4) | BE-7 |
| AAAZ | BISMUTH (83) | BI-206 |
| AABA | BISMUTH (83) | BI-207 |
| AABB | BISMUTH (83) | BI-210 |
| AABC | BISMUTH (83) | BI-212 |
| AABD | BROMINE (35) | BR-82 |
| AABE | CADMIUM (48) | CD-109 |
| AABF | CADMIUM (48) | CD-115M |
| AABG | CADMIUM (48) | CD-115 |
| AABH | CALCIUM (20) | CA-45 |
| AABJ | CALCIUM (20) | CA-47 |
| AABK | CALIFORNIUM (98) | CF-249 |
| AABL | CALIFORNIUM (98) | CF-250 |
| AABM | CALIFORNIUM (98) | CF-252 |
| AABN | CARBON (6) | C-14 |
| AABP | CERIUM (58) | CE-141 |
| AABQ | CERIUM (58) | CE-143 |
| AABR | CERIUM (58) | CE-144 |
| AABS | CESIUM (55) | CS-131 |
| AABT | CESIUM (55) | CS-134M |
| AABW | CESIUM (55) | CS-134 |
| AABX | CESIUM (55) | CS-135 |
| AABY | CESIUM (55) | CS-136 |

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| <u>REPLY CODE</u> | <u>MATERIAL ELEMENT</u> | <u>RADIONUCLIDES (AN55)</u> |
|-----------------------|-------------------------|-----------------------------|
| AABZ | CESIUM (55) | CS-137 |
| AACA | CHLORINE (17) | CL-36 |
| AACB | CHLORINE (17) | CL-38 |
| AACC | CHROMIUM (24) | CR-51 |
| AACD | COBALT (27) | CO-56 |
| AACE | COBALT (27) | CO-57 |
| AACF | COBALT (27) | CO-58M |
| AACG | COBALT (27) | CO-58 |
| AACH | COBALT (27) | CO-60 |
| AACJ | COPPER (29) | CU-64 |
| AACK | CURIUM (96) | CM-242 |
| AACL | CURIUM (96) | CM-243 |
| AACM | CURIUM (96) | CM-244 |
| AACN | CURIUM (96) | CM-245 |
| AACP | CURIUM (96) | CM-246 |
| AACQ | DYSPROSIUM (66) | DY-154 |
| AACR | DYSPROSIUM (66) | DY-165 |
| AACS | DYSPROSIUM (66) | DY-166 |
| AACT | ERBIUM (68) | ER-169 |
| AACW | ERBIUM (68) | ER-171 |
| AACX | EUROPIUM (63) | EU-150 |
| AACY | EUROPIUM (63) | EU-152M |
| AACZ | EUROPIUM (63) | EU-152 |
| AADA | EUROPIUM (63) | EU-154 |
| AADB | EUROPIUM (63) | EU-155 |
| AADC | FLUORINE (9) | F-18 |
| AADD | GADOLINIUM (64) | GD-153 |
| AADE | GADOLINIUM (64) | GD-159 |
| AADF | GALLIUM (31) | GA-67 |
| AADG | GALLIUM (31) | GA-72 |
| AADH | GERMANIUM (32) | GE-71 |
| AADJ | GOLD (79) | AU-193 |
| AADK | GOLD (79) | AU-194 |
| AADL | GOLD (79) | AU-195 |
| AADM | GOLD (79) | AU-196 |
| AADN | GOLD (79) | AU-198 |
| AADP | GOLD (79) | AU-199 |
| AADQ | HAFNIUM (72) | HF-181 |
| AADR | HOLMIUM (67) | HO-166 |
| | Hydrogen (1) | H-3 (use REPLY CODE AALP) |
| AADS | INDIUM (49) | IN-113M |
| AADT | INDIUM (49) | IN-114M |
| AADW | INDIUM (49) | IN-115M |
| AADX | INDIUM (49) | IN-115 |
| AADY | IODINE (53) | I-124 |
| AADZ | IODINE (53) | I-125 |
| AAEA | IODINE (53) | I-126 |

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| <u>REPLY CODE</u> | <u>MATERIAL ELEMENT</u> | <u>RADIONUCLIDES (AN55)</u> |
|-----------------------|---------------------------|-----------------------------|
| AAEB | IODINE (53) | I-129 |
| AAEC | IODINE (53) | I-131 |
| AAED | IODINE (53) | I-132 |
| AAEE | IODINE (53) | I-133 |
| AAEF | IODINE (53) | I-134 |
| AAEG | IODINE (53) | I-135 |
| AAEH | IRIDIUM (77) | IR-190 |
| AAEJ | IRIDIUM (77) | IR-192 |
| AAEK | IRIDIUM (77) | IR-194 |
| AAEL | IRON (26) | FE-55 |
| AAEM | IRON (26) | FE-59 |
| AAEN | KRYPTON (36) | KR-85M |
| AAEP | KRYPTON (36) | KR-85M, UNCOMPRESSED |
| AAEQ | KRYPTON (36) | KR-85 |
| AAER | KRYPTON (36) | KR-85, UNCOMPRESSED |
| AAES | KRYPTON (36) | KR-87 |
| AAET | KRYPTON (36) | KR-87, UNCOMPRESSED |
| AAEW | LANTHANUM (57) | LA-140 |
| AAEX | LEAD (82) | PB-203 |
| AAEY | LEAD (82) | PB-210 |
| AAEZ | LEAD (82) | PB-212 |
| AAFA | LUTECIUM (71) | LU-172 |
| AAFB | LUTECIUM (71) | LU-177 |
| AAFC | MAGNESIUM (12) | MG-28 |
| AAFD | MANGANESE (25) | MN-52 |
| AAFE | MANGANESE (25) | MN-54 |
| AAFF | MANGANESE (25) | MN-56 |
| AAFG | MERCURY (80) | HG-197M |
| AAFH | MERCURY (80) | HG-197 |
| AAFJ | MERCURY (80) | HG-203 |
| AAFK | MIXED FISSION PRODUCTS | MF-P |
| AAFL | MOLYBDENUM (42) | MO-99 |
| AAFM | NEODYMIUM (60) | ND-147 |
| AAFN | NEODYMIUM (60) | ND-149 |
| AAFP | NEPTUNIUM (93) | NP-237 |
| AAFQ | NEPTUNIUM (93) | NP-239 |
| AAFR | NICKEL (28) | NI-56 |
| AAFS | NICKEL (28) | NI-59 |
| AAFT | NICKEL (28) | NI-63 |
| AAFW | NICKEL (28) | NI-65 |
| AAFX | NIOBIUM (41) | NB-93M |
| AAFY | NIOBIUM (41) | NB-95 |
| AAFZ | NIOBIUM (41) | NB-97 |
| AAGA | OSMIUM (76) | OS-185 |
| AAGB | OSMIUM (76) | OS-191M |
| AAGC | OSMIUM (76) | OS-191 |

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| <u>REPLY CODE</u> | <u>MATERIAL ELEMENT</u> | <u>RADIONUCLIDES (AN55)</u> |
|-----------------------|-------------------------|-----------------------------|
| AAGD | OSMIUM (76) | OS-193 |
| AAGE | PALLADIUM (46) | PD-103 |
| AAGF | PALLADIUM (46) | PD-109 |
| AAGG | PHOSPHORUS (15) | P-32 |
| AAGH | PLATINUM (78) | PT-191 |
| AAGJ | PLATINUM (78) | PT-193 |
| AAGK | PLATINUM (78) | PT-193M |
| AAGL | PLATINUM (78) | PT-197M |
| AAGM | PLATINUM (78) | PT-197 |
| AAGN | PLUTONIUM (94) | PU-238 |
| AAGP | PLUTONIUM (94) | PU-239 |
| AAGQ | PLUTONIUM (94) | PU-240 |
| AAGR | PLUTONIUM (94) | PU-241 |
| AAGS | PLUTONIUM (94) | PU-242 |
| AAGT | POLONIUM (84) | PO-210 |
| AAGW | POTASSIUM (19) | K-42 |
| AAGX | POTASSIUM (19) | K-43 |
| AAGY | PRASEODYMIUM (59) | PR-142 |
| AAGZ | PRASEODYMIUM (59) | PR-143 |
| AAHA | PROMETHIUM (61) | PM-147 |
| AAHB | PROMETHIUM (61) | PM-149 |
| AAHC | PROTACTINIUM (91) | PA-230 |
| AAHD | PROTACTINIUM (91) | PA-231 |
| AAHE | PROTACTINIUM (91) | PA-233 |
| AAHF | RADIUM (88) | RA-223 |
| AAHG | RADIUM (88) | RA-224 |
| AAHH | RADIUM (88) | RA-226 |
| AAHJ | RADIUM (88) | RA-228 |
| AAHK | RADON (86) | RN-220 |
| AAHL | RADON (86) | RN-222 |
| AAHM | RHENIUM (75) | RE-183 |
| AAHN | RHENIUM (75) | RE-186 |
| AAHP | RHENIUM (75) | RE-187 |
| AAHQ | RHENIUM (75) | RE-188 |
| AAHR | RHENIUM (75) | RE-NATURAL |
| AAHS | RHODIUM (45) | RH-103M |
| AAHT | RHODIUM (45) | RH-105 |
| AAHW | RUBIDIUM (37) | RB-86 |
| AAHX | RUBIDIUM (37) | RB-87 |
| AAHY | RUBIDIUM (37) | RB-NATURAL |
| AAHZ | RUTHENIUM (44) | RU-97 |
| AAJA | RUTHENIUM (44) | RU-103 |
| AAJB | RUTHENIUM (44) | RU-105 |
| AAJC | RUTHENIUM (44) | RU-106 |
| AAJD | SAMARIUM (62) | SM-145 |
| AAJE | SAMARIUM (62) | SM-147 |
| AAJF | SAMARIUM (62) | SM-151 |

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| <u>REPLY CODE</u> | <u>MATERIAL ELEMENT</u> | <u>RADIONUCLIDES (AN55)</u> |
|-----------------------|-------------------------|-----------------------------|
| AAJG | SAMARIUM (62) | SM-153 |
| AAJH | SCANDIUM (21) | SC-46 |
| AAJJ | SCANDIUM (21) | SC-47 |
| AAJK | SCANDIUM (21) | SC-48 |
| AAJL | SELENIUM (34) | SE-75 |
| AAJM | SILICON (14) | SI-31 |
| AAJN | SILVER (47) | AG-105 |
| AAJP | SILVER (47) | AG-110M |
| AAJQ | SILVER (47) | AG-111 |
| AAJR | SODIUM (11) | NA-22 |
| AAJS | SODIUM (11) | NA-24 |
| AAJT | STRONTIUM (38) | SR-85M |
| AAJW | STRONTIUM (38) | SR-85 |
| AAJX | STRONTIUM (38) | SR-89 |
| AAJY | STRONTIUM (38) | SR-90 |
| AAJZ | STRONTIUM (38) | SR-91 |
| AAKA | STRONTIUM (38) | SR-92 |
| AAKB | SULPHUR (16) | S-35 |
| AAKC | TANTALUM (73) | TA-182 |
| AAKD | TECHNETIUM (43) | TC-96M |
| AAKE | TECHNETIUM (43) | TC-96 |
| AAKF | TECHNETIUM (43) | TC-97M |
| AAKG | TECHNETIUM (43) | TC-97 |
| AAKH | TECHNETIUM (43) | TC-99M |
| AAKJ | TECHNETIUM (43) | TC-99 |
| AAKK | TELLURIUM (52) | TE-125M |
| AAKL | TELLURIUM (52) | TE-127M |
| AAKM | TELLURIUM (52) | TE-127 |
| AAKN | TELLURIUM (52) | TE-129M |
| AAKP | TELLURIUM (52) | TE-129 |
| AAKQ | TELLURIUM (52) | TE-131M |
| AAKR | TELLURIUM (52) | TE-132 |
| AAKS | TERBIUM (65) | TB-160 |
| AAKT | THALLIUM (81) | TL-200 |
| AAKW | THALLIUM (81) | TL-201 |
| AAKX | THALLIUM (81) | TL-202 |
| AAKY | THALLIUM (81) | TL-204 |
| AAKZ | THORIUM (90) | TH-227 |
| AALA | THORIUM (90) | TH-228 |
| AALB | THORIUM (90) | TH-230 |
| AALC | THORIUM (90) | TH-231 |
| AALD | THORIUM (90) | TH-232 |
| AALE | THORIUM (90) | TH-234 |
| AALF | THORIUM (90) | TH-NATURAL |
| AALG | THULIUM (69) | TM-168 |
| AALH | THULIUM (69) | TM-170 |
| AALJ | THULIUM (69) | TM-171 |

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| <u>REPLY CODE</u> | <u>MATERIAL ELEMENT</u> | <u>RADIONUCLIDES (AN55)</u> |
|-----------------------|-------------------------|--|
| AALK | TIN (50) | SN-113 |
| AALL | TIN (50) | SN-117M |
| AALM | TIN (50) | SN-121 |
| AALN | TIN (50) | SN-125 |
| AALP | TRITIUM (1) | H-3 |
| AALQ | TRITIUM (1) | H-3 AS GAS, LUMINOUS PAINT, OR ADSORBED ON SOLID MATERIAL |
| AALR | TUNGSTEN (74) | W-181 |
| AALS | TUNGSTEN (74) | W-185 |
| AALT | TUNGSTEN (74) | W-187 |
| AALW | URANIUM (92) | U-230 |
| AALX | URANIUM (92) | U-232 |
| AALY | URANIUM (92) | U-233 |
| AALZ | URANIUM (92) | U-234 |
| AAMA | URANIUM (92) | U-235 |
| AAMB | URANIUM (92) | U-236 |
| AAMC | URANIUM (92) | U-238 |
| AAMD | URANIUM (92) | U-NATURAL |
| AAME | URANIUM (92) | U-ENRICHED |
| AAMF | URANIUM (92) | U-DEPLETED |
| AAMG | VANADIUM (23) | V-48 |
| AAMH | VANADIUM (23) | V-49 |
| AAMJ | XENON (54) | XE-125 |
| AAMK | XENON (54) | XE-131M |
| AAML | XENON (54) | XE-131M, UNCOMPRESSED |
| AAMM | XENON (54) | XE-133 |
| AAMN | XENON (54) | XE-133, UNCOMPRESSED |
| AAMP | XENON (54) | XE-135 |
| AAMQ | XENON (54) | XE-135, UNCOMPRESSED |
| AAMR | YTTERBIUM (70) | YB-175 |
| AAMS | YTTRIUM (39) | Y-88 |
| AAMT | YTTRIUM (39) | Y-90 |
| AAMW | YTTRIUM (39) | Y-91M |
| AAMX | YTTRIUM (39) | Y-91 |
| AAMY | YTTRIUM (39) | Y-92 |
| AAMZ | YTTRIUM (39) | Y-93 |
| AANA | ZINC (30) | ZN-65 |
| AANB | ZINC (30) | ZN-69M |
| AANC | ZINC (30) | ZN-69 |
| AAND | ZIRCONIUM (40) | ZR-93 |
| AANE | ZIRCONIUM (40) | ZR-95 |
| AANF | ZIRCONIUM (40) | ZR-97 |

Reference Drawing Groups

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| REFERENCE DRAWING GROUP A..... | 84 |

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BASIC STYLE SHAPE

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABHPJAA2.500*; ABHPJLA63.5*; ABHPJAB2.500\$\$JAC2.750*)

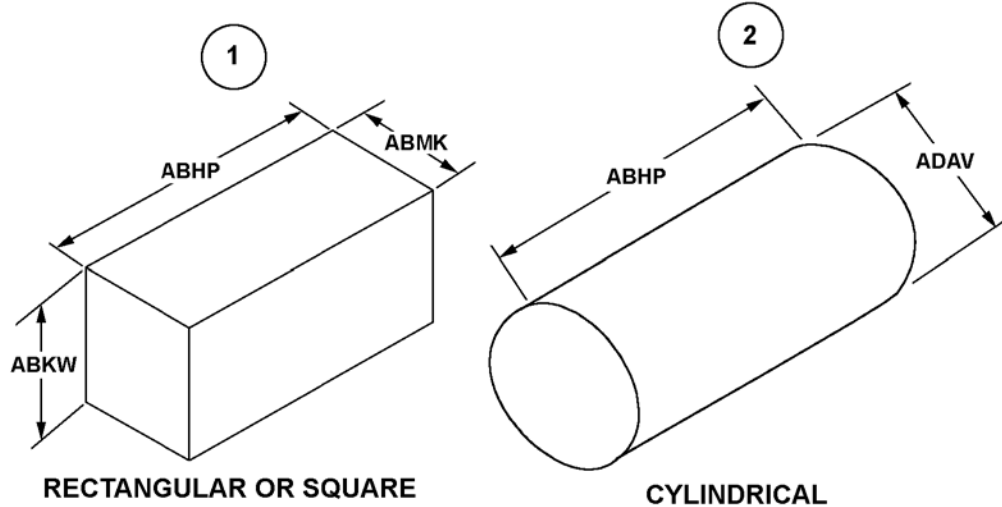
| <u>REPLY CODE</u> | <u>REPLY (AA05)</u> |
|-------------------|---------------------|
| A | INCHES |
| L | MILLIMETERS |

| <u>REPLY CODE</u> | <u>REPLY (AC20)</u> |
|-------------------|---------------------|
| A | NOMINAL |
| B | MINIMUM |
| C | MAXIMUM |

| <u>MRC</u> | <u>Mode Code</u> | <u>Name of Dimension</u> |
|------------|------------------|--------------------------|
| ABHP | J | OVERALL LENGTH |
| ABKW | J | OVERALL HEIGHT |
| ABMK | J | OVERALL WIDTH |
| ADAV | J | OVERALL DIAMETER |

REFERENCE DRAWING GROUP A

BASIC STYLE SHAPE



3

USE THIS STYLE FOR ITEMS
WHOSE SHAPES CANNOT BE
IDENTIFIED TO THE BASIC
GEOMETRIC SHAPES DEPICTED
BY STYLES 1 AND 2, AND
RECORD OVERALL DIMENSIONS
AS REQUIRED.
(ABHP, ABKW, ABMK, ADAV)

IRREGULAR

Technical Data Tables

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APPENDIX C

STANDARD FRACTION TO DECIMAL CONVERSION CHART

| <u>4ths</u> | <u>8ths</u> | <u>16ths</u> | <u>32nds</u> | <u>64ths</u> | <u>To 3</u> | <u>To 4</u> | <u>4ths</u> | <u>8ths</u> | <u>16ths</u> | <u>32nds</u> | <u>64ths</u> | <u>To 3</u> | <u>To 4</u> |
|-------------|-------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|-------------|-------------|
| | | | | 1/64 | .016 | .0156 | | | | | 33/64 | .516 | .5156 |
| | | | 1/32 | ----- | .031 | .0312 | | | | 17/32 | ----- | .531 | .5312 |
| | | | | 3/64 | .047 | .0469 | | | | | 35/64 | .547 | .5469 |
| | | 1/16 | ----- | | .062 | .0625 | | | 9/16 | ----- | ----- | .562 | .5625 |
| | | | | 5/64 | .078 | .0781 | | | | | 37/64 | .578 | .5781 |
| | | | 3/32 | ----- | .094 | .0938 | | | | 19/32 | ----- | .594 | .5938 |
| | | | | 7/64 | .109 | .1094 | | | | | 39/64 | .609 | .6094 |
| | 1/8 | ----- | ----- | ----- | .125 | .1250 | | 5/8 | ----- | ----- | ----- | .625 | .6250 |
| | | | | 9/64 | .141 | .1406 | | | | | 41/64 | .641 | .6406 |
| | | | 5/32 | ----- | .156 | .1562 | | | | 21/32 | ----- | .656 | .6562 |
| | | | | 11/64 | .172 | .1719 | | | | | 43/64 | .672 | .6719 |
| | | 3/16 | ----- | ----- | .188 | .1875 | | | 11/16 | ----- | ----- | .688 | .6875 |
| | | | | 13/64 | .203 | .2031 | | | | | 45/64 | .703 | .7031 |
| | | | 7/32 | ----- | .219 | .2188 | | | | 23/32 | ----- | .719 | .7188 |
| | | | | 15/64 | .234 | .2344 | | | | | 47/64 | .734 | .7344 |
| 1/4 | ----- | ----- | ----- | ----- | .250 | .2500 | 3/4 | ----- | ----- | ----- | ----- | .750 | .7500 |
| | | | | 17/64 | .266 | .2656 | | | | | 49/64 | .766 | .7656 |
| | | | 9/32 | ----- | .281 | .2812 | | | | 25/32 | ----- | .781 | .7812 |
| | | | | 19/64 | .297 | .2969 | | | | | 51/64 | .797 | .7969 |
| | | 5/16 | ----- | ----- | .312 | .3125 | | | 13/16 | ----- | ----- | .812 | .8125 |
| | | | | 21/64 | .328 | .3281 | | | | | 53/64 | .828 | .8281 |
| | | | 11/32 | ----- | .344 | .3438 | | | | 27/32 | ----- | .844 | .8438 |
| | | | | 23/64 | .359 | .3594 | | | | | 55/64 | .859 | .8594 |
| | 3/8 | ----- | ----- | ----- | .375 | .3750 | | 7/8 | ----- | ----- | ----- | .875 | .8750 |
| | | | | 25/64 | .391 | .3906 | | | | | 57/64 | .891 | .8906 |
| | | | 13/32 | ----- | .406 | .4062 | | | | 29/32 | ----- | .906 | .9062 |
| | | | | 27/64 | .422 | .4219 | | | | | 59/64 | .922 | .9219 |
| | | 7/16 | ----- | ----- | .438 | .4375 | | | 15/16 | ----- | ----- | .938 | .9375 |
| | | | | 29/64 | .453 | .4531 | | | | | 61/64 | .953 | .9531 |
| | | | 15/32 | ----- | .469 | .4688 | | | | 31/32 | ----- | .969 | .9688 |
| | | | | 31/64 | .484 | .4844 | | | | | 63/64 | .984 | .9844 |
| | | | | | .500 | .5000 | | | | | | 1.000 | 1.0000 |

NEMA* DEFINITIONS OF QUALIFYING TERMS

NOTE: Definitions in the above list bearing the identification "C42" are selected from the group 95 definitions proposed by subcommittee 18 of sectional committee C42 for inclusion in the next edition of the "American Standard Definitions of Electrical Terms." Numbers at right of each definition refer to "American Standard Definitions of Electrical Terms," published by American Institute of Electrical Engineers, approved by **American Standards Association. *National Electrical Manufacturers Association **Now American National Standards Institute (ANSI)

1. Acid-Resistant (C42) 95.91.165 Acid-resistant means so constructed that it will not be injured readily by exposure to acid fumes.
2. Dustproof (C42) 95.91.126 Dustproof means so constructed or protected that dust will not interfere with its successful operation.
3. Dust-tight (C42) 95.91.130 Dust-tight means so constructed that dust will not enter the enclosing case.
4. Fume-resistant (C42) 95.91.116 Fume-resistant means so constructed that it will not be injured readily by exposure to the specified fumes.
5. Moisture resistant (C42) 95.91.140 Moisture-resistant means so constructed or treated that it will not be injured readily by exposure to a moist atmosphere.
6. Oil-tight Oil-tight means so constructed that oil will not enter the enclosing case.
7. Rain-tight (C42) 95.91.175 Rain-tight means so constructed or protected that exposure to a beating rain will not result in the entrance of water.

8. Sleetproof (C42) 95.91.170Sleetproof means so constructed or protected that the accumulation of sleet will not interfere with its successful operations.

9. Splashproof (C42) 95.91.160Splashproof means so constructed and protected that external splashing will not interfere with its successful operation.

10. Submersible (C42) 95.91.148Submersible means so constructed that it will operate successfully when submerged in water under specified conditions of pressure and time.

11. Water-tight Water-tight means provided with an enclosing case which will exclude water applied in the form of a hose stream under specified conditions.

12. Weatherproof (Outside Exposure) (C42) 95.91.186Weatherproof means so constructed or protected that exposure to the weather will not interfere with its successful operation.

*National Electrical Manufacturers Association

**Now American National Standards Institute (ANSI)

HAZARDOUS LOCATION CLASSIFICATION

CLASS I - LOCATIONS

"Class I locations are those in which flammable gases or vapors are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures." Class I includes the following groups:

GROUP A:

Atmospheres containing acetylene;

GROUP B:

Atmospheres containing hydrogen or gases or vapors of equivalent hazard such as manufactured gas;

GROUP C:

Atmospheres containing ethyl-ether vapor, ethylene, or cyclopropane;

GROUP D:

Atmospheres containing gasoline, hexane, naphtha, benzine, butane, propane, alcohol, acetone, lacquer solvent vapors, or natural

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gas.

CLASS II - LOCATIONS

"Class II locations are those which are hazardous because of the presence of combustible dust." Class II locations include the following groups:

GROUP E:

Atmospheres containing metal dust, including aluminum, magnesium, and their commercial alloys;

GROUP F:

Atmospheres containing carbon black, coal or coke dust;

GROUP G:

Atmospheres containing flour, starch, or grain dust.

CLASS III - LOCATIONS

"Class III locations are those which are hazardous because of the presence of easily ignitable fibers or flyings; but in which such fibers or flyings are not likely to be in suspension in air in quantities sufficient to produce ignitable mixtures."

OUNCE TO DECIMAL OF A POUND CONVERSION CHART

| <u>OUNCES</u> | <u>POUNDS</u> |
|---------------|---------------|
| 1 | 0.062 |
| 2 | 0.125 |
| 3 | 0.188 |
| 4 | 0.250 |
| 5 | 0.312 |
| 6 | 0.375 |
| 7 | 0.438 |
| 8 | 0.500 |
| 9 | 0.562 |
| 10 | 0.625 |
| 11 | 0.688 |
| 12 | 0.750 |
| 13 | 0.812 |
| 14 | 0.875 |
| 15 | 0.938 |
| 16 | 1.000 |

FIIG Change List

FIIG Change List, Effective March 5, 2010.

Added New Reply - AA - "ELECTROMECHANICAL" to MRC BHSX.